



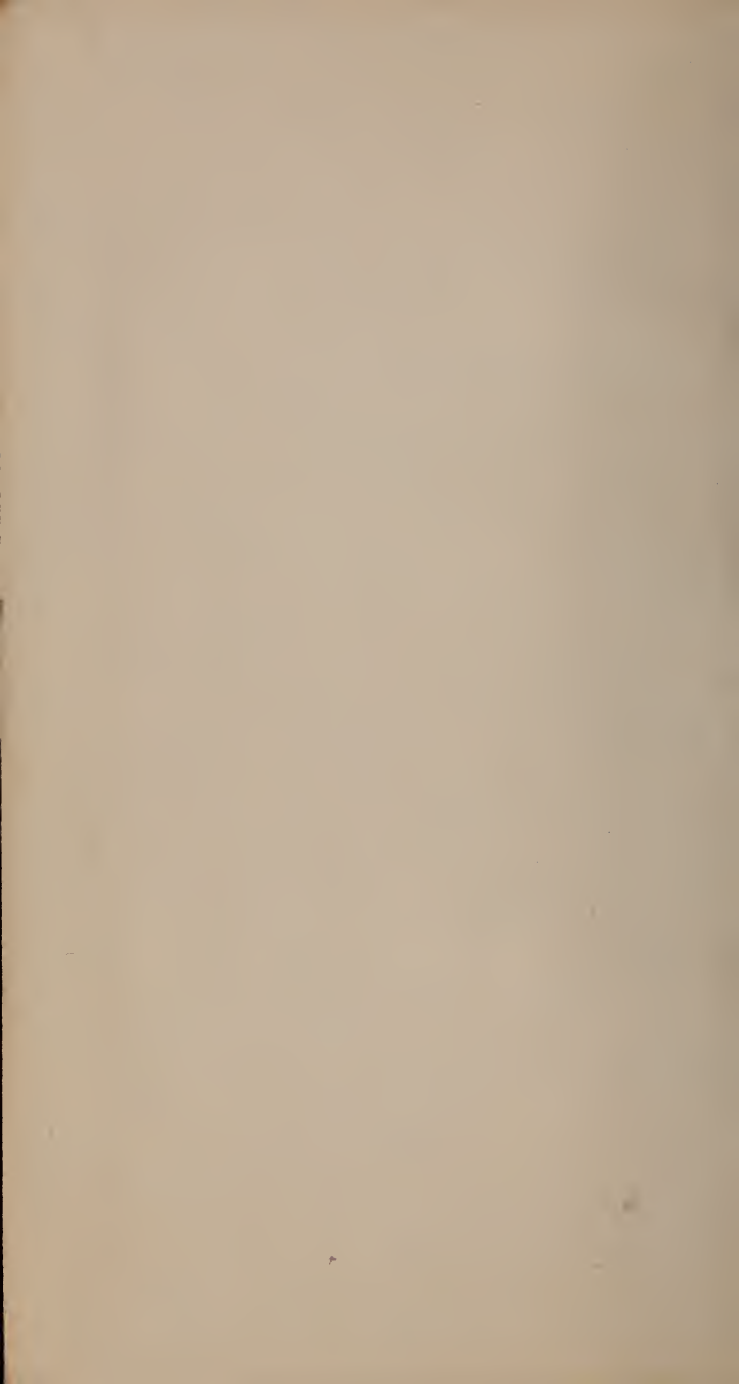


Class QA55

Book H35

1838







1

LOGARITHMIC AND TRIGONOMETRIC

TABLES;

TO

5986.

SEVEN PLACES OF DECIMALS,

IN A POCKET FORM.

IN WHICH

THE ERRORS OF FORMER TABLES ARE CORRECTED

BY F. R. HASSLER, M. A. P. S.

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*Southern District of New-York, ss.*

❖❖❖❖❖❖ BE IT REMEMBERED, That on the 22d day  
❖ of April, A. D. 1830, in the fifty-fourth year of the  
❖ L. S. ❖ Independence of the United States of America, F. R.  
❖ Hassler, of the said District, hath deposited in this  
❖❖❖❖❖❖ office the title of a book, the right whereof he claims  
as Author, in the words following, to wit:

“Tables Logarithmiques et Trigonometriques à sept decimales, en  
Petit Format, corrigées des erreurs des Tables précédentes, Par  
F. R. HASSLER, M. S. P. A.”

In conformity to the Act of Congress of the United States, entitled  
“An Act for the encouragement of Learning, by securing the copies  
of Maps, Charts, and Books, to the authors and proprietors of such  
copies, during the times therein mentioned.” And also to an Act,  
entitled “An Act supplementary to an Act, entitled an Act for the  
encouragement of Learning, by securing the copies of Maps, Charts,  
and Books, to the authors and proprietors of such copies, during the  
times therein mentioned, and extending the benefits thereof to the arts  
of designing, engraving, and etching historical and other prints.”

FRED. J. BETTS.

*Clerk of the Southern District of New-York.*



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By Transfer

SEP 25 1928

# INTRODUCTION.

## UPON THE TABLES OF COMMON LOGARITHMS.

§ 1. Any quantity may be represented under the form of a power or another given quantity. With quantities thus represented the arithmetical operations of multiplication, division, raising to powers, either whole or fractional, are executed upon the exponents, by an operation always one degree less complicated, than when executed upon the quantities in their common form, viz: multiplication by the addition of the exponents, division by their subtraction, raising into powers, whole or fractional, by multiplication with the proper exponent, either whole or fractional. Thus, therefore, all quantities whatsoever, may be expressed by certain powers of one and the same quantity, taken as the *Base of the system*, and with such a base ( $=b$ ) we have the following algebraic form of the above four operations.

$$b^n b^m = b^{n+m}; \frac{b^n}{b^m} = b^{n-m}; (b^n)^m = b^{n \cdot m}; (b^n)^{\frac{p}{q}} = b^{\frac{np}{q}}$$

To the exponents corresponding to any number thus expressed by the power of some one general base, has been given the denomination of *Logarithms*, and the system forms what is called a logarithmic system.

§ 2. This principle gives rise to an arithmetic series, whose first term is  $=0$ , and which corresponds term for term to a geometric series of rapid increase, whose first term is  $=1$ : thus,

Logarithms  $= 0; 1; 2; 3; 4; 5; 6; \&c.$

Number  $= 1; b^1; b^2; b^3; b^4; b^5; b^6; \&c.$

There may evidently be an infinite number of logarithmic systems; the most usual for practical calculation, is that which is adapted to our decimal system of numeration, and which makes  $b=10$ . it therefore presents the following numerical series.

Logarithms  $= 0; 1; 2; 3; 4; 5; \&c.$

Numbers  $= \{ 1; 10^1; 10^2; 10^3; 10^4; 10^5; \&c. \\ 1; 10; 100; 1000; 10000; 100000; \&c.$

In this system the whole numbers in the exponents or logarithms, are evidently indicative of the number of digits in the number itself, and are always one less than this number of digits; thence this whole number is called the *Characteristic* of the logarithm. Any number intermediate between any two powers of ten, will therefore contain, besides the characteristic proper to the number of its digits, an approximating decimal fraction (called mantissa.) The characteristic being thus determined by the number of digits of the number, it is in this system, only necessary to know this decimal fraction, in order to operate with these logarithms upon any quantity whatever.

§ 3. Thence the use of logarithms, is exactly the same as that of the exponents in algebra; or we have

$$\log n = N; \text{ and } 10^{\log n} \times 10^{\log m} = 10^{\log m + \log n}$$

the arithmetical operations to be performed by logarithms, are thus represented:

For multiplication :  $\log N + \log M = \log (N. M)$

For division :  $\log N - \log M = \log \frac{N}{M}$

For raising to powers  $\left\{ \begin{array}{l} \text{whole : } \log N^p = p \log N \\ \text{fractional : } \log N^{\frac{s}{q}} = \frac{s}{q} \log N \end{array} \right.$

The import of these simple algebraic formulæ, is what is executed in the calculations by logarithms, and tables are calculated to an extent sufficient for every practical use, presenting the logarithms of the numbers for the powers of 10 ; and when inversely used, they again of course present the number to any result obtained in an operation performed by their means. Seven places of figures for the mantissa are generally sufficient, for even great practical accuracy.

§ 4. The arrangement of the logarithmic tables here given, is as follows : The first column of each page contains the natural number ; the second column the logarithm corresponding to this number, and any of its products by *ten* ; for any number of nulls that might follow it, would only increase the characteristic, by the principle stated § 2, and this characteristic is omitted, because it is determined by that principle.

The following columns headed 1, 2, 3, &c. to 9, each present four figures, which, written after the first three of the second column, extend the tables one place farther, indicated by this heading ; these three first figures are therefore general and constant numbers, to be prefixed to the four others in either one of the 10 columns, until supplied by another constant number, which is indicated by the blank space left at the beginning of each alteration.

Thus the log. of 36520, being in the second column, headed 0, the log. of 36527 is composed of the three first figures standing separate in the column headed 0, and the four that stand in the same line in the column headed 7. Besides these columns, there are given small tables, headed by the difference between two successive logarithms, which contain the subdivision of this difference corresponding to the number indicated in their first columns, for one figure lower in the decimal system of numeration. These differences, therefore, extend the tables one digit farther, in the same manner as the columns after 0, have done for the preceding higher order ; they may be extended one figure more, when needed, by removing the proportional part, which they give, one figure more to the right, but in this case it must be observed : that the nearest corresponding higher or lower figure of the 7th place is taken instead of the 8th, resulting, because the number of figures in the logarithms is never increased. Thus, if in the above example, the numbers were extended to 3652794, the proportional part for the 9 would be taken in the corresponding small table, and added to the log. of the preceding part, and the proportional part for the 4, being taken in the same table, the nearest number in the seventh place, would be taken instead of the 8th figure, and this added to the last result. The characteristic will be determined by the principle of § 2 : thus if the numbers were all whole numbers, it would in the last case here be 6, if it were

36527,94 it would be 4 ; if 36,52794, it would be 1, &c.

§ 5. If the number is a decimal fraction without whole numbers, the best method is to consider it as a whole number, and instead of the characteristic of 10 being = 1, to suppose it = 10 ; this will give both the characteristic and the fractional part of the log. positive, and can lead to no mistake, as an error in this would increase the number of figures for eleven

places, within which the probable result is always ascertainable in some other manner; such log. may always be distinguished by using a full stop (.) after the characteristic, instead of a comma (,) as after the log. implying whole numbers; this characteristic will indicate the first significant figure by counting from 10, downwards, so that 9 will correspond to 0,1; 8 to 0,01, and so on for all the rest; so that as much as the characteristic is less than 10, so many is the number of 0's preceding the significant figures, the 0 of the unity being included. In the result as many tens of the characteristic will be rejected (if possible,) as tens have been introduced by the data of the calculation, which will be indicated by the number of (.) after the characteristic; and if the characteristic is not sufficient, for all rejection, its keeping a (.) will denote that it belongs to a decimal fraction.

§ 6. To find the logarithm to a number, by the tables.

1st Example. To find the log. of 43560, having the same number of figures as the tables.

This is found directly in the column headed 0, opposite to 4356 in the first column, and there being 5 whole numbers, its characteristic will be 4; thus we obtain  $\log. 43560 = 4,6390879$ .

If it had been 435,6 the characteristic would have been 2, and the fractional part of the log. the same as above.

2d Example. To find the log. of 921796,4 exceeding the tables by two places of figures; as it has 6 whole figures, the characteristic will be = 5.

Opposite to 9217 in the first column, and in the column headed 9 will be found, by joining the characteristic and the three first general numbers of the column headed 0.

	$\log. 92179$	$=$	5,9646320
for the subsequent number 6, the corresponding			
small table headed 47, gives		$=$	28
and for the following number 4, it gives, by removing the result one figure to the right		$=$	19

The whole log. using 20 instead of 19 in the last part, as nearest in the 7th place, is  $= 5,9646350$

3d Example. To find the log. of 319, having less figures than the tables. The addition of 0's, changing only the characteristic, this log. is the same as opposite 3190 in the column headed 0, and the characteristic is = 2. therefore

$$\log. 319 = 2,5037907.$$

4th Example. To find the log. of 0,003759 a decimal fraction; there being three nulls, the characteristic arising from the augmentation of 10, will be 7, after which must be placed a (.) and the logarithm of 3759 be taken, which makes

$$\log. 0,003759 = 7.5750723.$$

§ 7. To find the number to a given logarithm. This is the inverse of the preceding process, the tables are therefore used inversely, thus: the given logarithm is compared with the nearest below it in the tables, the difference between the two being taken, the small tables on the side, used also in the inverse order of the preceding operation, will give the proportional parts of the number, to be added to the number in the columns of the tables, corresponding to the nearest lower log. first taken.

1st Example. To find the number corresponding to the logarithm 3,7144136. This is found exactly in the second column of the tables, headed 0, opposite to the number 5181. The characteristic 3, indicates four places of figures for the whole number, thence is obtained

$$3,7144136 = \log 5181,0$$

1\*



2d Example. To find the number corresponding to the log. 2,1716387. This is again found exactly in the line of the number 1484 and the column headed 7, by uniting the 3 first figures of the column headed 0, with the 4 in that headed 7. Thence in adding the 7 to the number of the first column gives 2,1716387 = log. 148,47 with three whole figures, because of the characteristic = 2.

3d Ex. To find the number corresponding to the log. 5,3109537  
The log. of the tables nearest below it is = ,3109481  
corresponding to the number 20462 in the first column, by the union of the three leading figures of the column headed 0, with the four in that headed 2; taking the difference between the two log. = 56  
and comparing it with the second column of the small table headed 212 (the corresponding difference) it gives for the first proportional part, from 42 the proportional number 2; the 42 deducted from the difference above is = 56 - 42 = 14; this increased by an 0, to extend the difference one figure farther, gives, in the same table, for 140 the nearest proportional number 7, it being only 8 more in the table, and therefore nearest, whence these two numbers added after the above, and the comma, which denotes the whole numbers, placed according to the known principles, for the characteristic, we obtain:

$$5,3109537 = \log. 204622,7.$$

4th Ex. To find the number corresponding to the log. 6,3194267  
where the (.) after the characteristic shows that it is a decimal fraction, therefore 10 too large; the 6 in the characteristic shews the first significant figure to be in the 4th place of decimals, and the nearest log. in the tables is 3194184, giving, by prefixing the number of 0's corresponding to the characteristic, = 0,00020865  
the difference between the two logarithms is 83  
which in the small table headed 208, corresponds exactly to 4  
for the next following decimal; whence results:

$$6,3194267 = \log. 0,000208654.$$

§ 8. The following examples will show the form in which the arithmetical operations, indicated in § 3, are executed; the log. being found by the direction of the two preceding sections.

A. For multiplication or  $\log. m + \log. n = \log. (m. n)$

1st Example. given  $n = 839,3$ ;  $m = 1485,9$

$$\log n = \log. 839,3 = 2,9239172$$

$$\log m = \log. 1485,9 = 3,1719896$$

$$\log (m. n) = \log. 1247116, = 6,0959068 = \text{sum.}$$

The difference with the nearest log.

of the tables (.0959013) or 55  
corresponds in the small table headed 348 first to 1, for 35, and this deducted from 55, and the result augmented by a 0, giving 200, the nearest to which is 209, corresponding to 6, gives, in joining these numbers to the above, the characteristic taken into consideration, the final result:

$$(839,3) \times (1485,9) = 1247116,$$

2. Ex. If one of the factors be a decimal fraction the log. of which is taken with a characteristic 10 too large; as, suppose to be required the result of  $(1731,4) \times (0,0329)$

$$\log. 1731,4 = 3,2383974$$

$$\log. 0,0329 = 8,5171959$$

$$\log. 56,96305 = 1,7555933 = \text{Sum.}$$

difference from nearest log.

4

the difference furnishing the two last figures from the small corresponding table headed 77.

If the first number had been only 17,314 the characteristic of its log. being only 1, that of the result would have been 9. indicating the decimal fraction = 0,5696305 for the ultimate result.

B°. To make a division the formula to execute is  $\log. m - \log n$   
 thus: given  $m = 131,496$  ;  $n = 72,931$  ; or to execute

$$\begin{array}{r} \text{gives } \log. 131,496 = 2,1189125 \\ \log. 72,931 = 1,8629122 \end{array}$$

$$\log. 1,80302 = 0,2560003 = \text{difference.}$$

difference from tabular lower log. = 46  
 the nearest corresponding number of the small table headed 241 is = 2, which gives the last number of the above result. If the divisor had been greater than the dividend, the subtraction being made as above, with the supposition of the characteristic of the dividend increased by 10, the characteristic of the result would have been ten too large, and being used as shown before, the resulting quotient would be the corresponding decimal fraction.

§9. In larger calculations the subtraction of logarithms is inconvenient, therefore instead of subtracting the log. of the divisor, as above, its arithmetic complement to ten in the characteristic is taken, and again distinguished by a (.) after the characteristic, and then added ; this can easily be read out of the table itself, with a little habit in calculation ; to obtain this, all the numbers of the logarithm, the characteristic included, are subtracted from 9, except the 7th, which is subtracted from 10. Thus treated the above example would stand

$$\begin{array}{r} \log. 131,496 = 2,1189125 \\ \text{ar. co. log. } 72,931 = 8.1370878 \end{array}$$

$$\log. 1,80302 = 0,2560003 = \text{Sum.}$$

By this method the result of a number of multiplications and divisions, mixed in a compound factor, are obtained by the simple addition of the corresponding logarithms of the multipliers and the ar. compl. of the divisors.

§10. To execute the raising into power of a number by its log. that is to execute  $\log. N^p = p. \log N$  of §3.

1st Example ;  $\log (3,1415927)^3$  we find the  
 $\log. 3,1415927 = 0,4971499$   
 multiplying by 3

$$\text{gives } \log. 31,00631 = 1,4914497$$

2d Example ; to execute  $(2713,79)^{\frac{1}{4}}$   
 $\log. 2713,79 = 3,4335762$

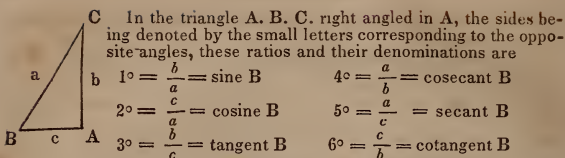
the log. divided by 4 gives ;  $\log. 7,21762 = 0,8583940$

giving the last figure = 2.

12 = difference.

## UPON THE TRIGONOMETRIC TABLES.

§11. In a right angled triangle the geometric ratio of either two of the sides is determined by either of the two acute angles of the triangle, and this is called a *trigonometric function* of that angle ; peculiar denominations have been given to them, thus :



Of these ratios the three last are the inverse of the three first, these three therefore suffice for all trigonometric calculations.

These ratios, expressed in decimal fractions, are the numbers that are given in the trigonometric tables. On account of the great advantage of logarithms in all calculations, their logarithms have been calculated, under the form above stated for decimal fractions, as supposing the characteristic increased by ten.

The two acute angles of a right angled triangle being complement the one of the other to one right angle, the above ratios formed upon B, apply to C. by changing the *sine* into *cosine*; *tangent* into *cotangent*; *secant* into *cosecant*; and inversely; the lines presenting, by this change, the same position towards the angle, C, as before the inversion towards B.

From one half right angle (45°) to the whole right angle (90°) the values of every one of these trigonometric functions recur again in an inverse order, and with the change just stated, as appropriated to the complementary angle, therefore the tables need be calculated only to 45° to serve for the whole circle. For an angle between 90° and 180° the same change takes place for its excess above 90°.

According to the effect of the arithmetic complements in logarithms, the arithmetic complements of the logarithms of the *sine*, *cosine*, and *tangent* give the logarithms of the *cosecant*, *secant* and *cotangent* respectively; the secants and cosecants are now always dispensed with, the cotangents have been retained, rather from habit, than from any necessity.

§12. In the following tables the log. sines and the log. tangents of the first degree are given for every single second, if more minuteness is required, the proportional parts for the decimals, must be determined by the differences, and even second differences of the given log.

The cosines of the first degree, varying but little, are given to every 30" in a separate page, together with the cotangents; but when particular accuracy is desired the complement of the tangent of the complementary angle must be taken. Of the second and third degree the four trigonometric functions are given to every ten seconds; and the differences between each in the adjoining column; the proportional parts for single seconds, and decimals, are obtained by the product of this difference with these seconds, and parts, rejecting one figure to the right, besides what may be due to the decimals of seconds.

From the beginning of 3° up to 45° the log. of the trigonometric functions are given to every 30" and the differences for 10", which latter affords the same facility for the proportional parts as in the preceding part; these will most generally suffice to give directly the accuracy to an unity in the 7th place of the logarithm, but up to 7° the following method of determining the proportional parts is to be used, for the log. *sines*, *tangents*, and *cotangents*; namely until 15" difference, inclusive, the *corresponding immediate difference* is used, to be added with the increasing, or subtracted with the decreasing function; from 15" upwards to 30", or the next whole minute, the logarithm of this latter must be used, and the *arithmetic mean between the corresponding difference and that next following* must be taken to form the proportional parts, that are now to be applied inversely.



§13. To introduce into the practical use of these tables the following examples may suffice.

1st Example; To find the log. sine and the log. tangent of  $1^{\circ} 21' 14''$  the tables give for

$1^{\circ} 21' 10''$ l. sine	8.3730635	diff.	8907	l. tang.	8.3731845	diff.	8912
proportional parts for $4''$	+ 3563				+ 3565		
for $1^{\circ} 21' 14''$ l. sine	= 8.3734198				l. tang. 8.3735410		

2d Ex. To find the log. sine and log. tang. of  $4^{\circ} 25' 13''$  the

tables give for $4^{\circ} 25' 0''$ l. sine	8.8865418	diff.	2725	l. tang.	8.8877334	diff.	2741
prop. parts for $13''$	+ 3542				+ 3563		
for $4^{\circ} 25' 13''$	= 8.8868960				8.8881897		

3d Ex. To find log. sine and log. tang. of  $4^{\circ} 39' 19''$

tables for $4^{\circ} 39' 30''$ l. sine	= 8.9096294	mean diff.	2585	l. tang.	8.9110663	mean diff.	2603
prop. parts for $11''$	- 2844				- 2863		
for $4^{\circ} 39' 19''$ sine	= 8.9093450				tang. = 8.9107800		

any other example for cosine, or other, will be the same, with the proper attention to the increase or decrease of the function; it is always proper to take the nearest tabular log. adding, or subtracting, as the case requires.

§14. The following examples will show the inverse operation of determining the angle from one of its trigonometric functions.

1st Ex. To find the angle the log. tang. of which is = 8.9410974 in the column of tangents the nearest value is = 8.9412237

corresponding to  $4^{\circ} 59' 30''$ ; difference = - 1263  
the mean tabular difference between  $\left\{ \begin{array}{l} 2432 \\ 2428 \end{array} \right\} = 2430$  forms a divisor to the difference 12630  
found, increased by the addition of a 0, thus is obtained 2430

which executed gives the corresponding seconds =  $5''.2$   
thence the result  $4^{\circ} 59' 30'' - 5''.2 = 4^{\circ} 59' 24''.8$

2d Ex. To find the angle the log. sine of which is = 8.9568559 the nearest log. sine in the tables is = 8.9565897

corresponding to  $5^{\circ} 11' 30''$ ; difference = + 2662  
this difference multiplied by ten, and divided by the tabular difference, gives  $\frac{26620}{2317} = 11.49$  which added to the above, and taking the nearest tenth, gives the ultimate result  $5^{\circ} 11' 41''.5$ .

## UPON THE TABLES OF NATURAL SINES.

§15. The use of the trigonometric functions in natural numbers is altogether superseded by those in logarithms, on account of the much greater advantage of the latter. However natural sines may be used with advantage in plotting surveys, and wherever angles are to be constructed; with a view to this application they are introduced in this volume to every  $30''$ ; when the differences are not written immediately after the sines the preceding difference is considered as applicable.

*The sine of an angle is half the chord of twice that same angle, or arc.* Upon this principle I ground the following method of protracting the angles of a survey independantly from one another, and with an accuracy unattainable by any other mechanical means.

§16. Draw a fine straight line through the middle of the paper, in any convenient direction; if the survey is made with the compass, it will be best to accept the magnetic meridian; in others, one of the principal lines of the survey will be taken; to this also an exact perpendicular may be drawn. Either in the middle of this line, or in the intersection of the perpendiculars, draw a circle with a radius equal to 500 parts of a scale of 1000 parts; in this circle the intersection of the above line with the circumference will determine diametrically opposite points, as; 0. 0. from which, as also from 90°. if the 90° points have been determined, are laid off on both sides, with the same opening of the divider; the points determining the 60°. and in the second case also the 30° on each side of. 0. 0., will be marked; forming the elements of an accurate protractor for the whole map.



To lay off any angle by means of this protractor, as for instance  $14^{\circ} 29'$ , the half of it being  $7^{\circ} 14' 30''$ , find in the tables the natural sine of this half angle, and find its tabular value = 0,1260047 which, in the adopted scale of thousand parts, will give 126,005 taking this distance in the dividers, the intersection of it with the circumference of the circle, from the line 0. 0. and on both opposite sides of the same, will determine the proper points b, b; the line drawn between them passes through the centre of the circle; to this a line will be drawn parallel, by means of rule and triangle, at any point of the map that will make the angle  $14^{\circ} 29'$  with the direction 0. 0. If the angle is above  $30^{\circ}$ , either its complement to  $60^{\circ}$  is taken, and the distance is laid off backwards from the point of  $60^{\circ}$ , or  $30^{\circ}$  is subtracted, if this point be marked, and the operation performed as above, with the remainder; in like manner an angle between  $60^{\circ}$  and  $90^{\circ}$  or in fact any larger one may be made; the angle intended to be used is always brought *within* half the distance between two divisions, that it may come within the easy reach of a common divider, and the points may be made with nearer perpendicular legs, for greater accuracy; the laying off of two diametrically opposite points affords a proof of the accuracy of their placing, and secures more accuracy. If found necessary or convenient, on large papers, several such circles may be drawn in the prolongation of the lines 0, 0, or its perpendicular. With a little practice, easily acquired, this method will be found much quicker than laying off with a protractor, or scale, with which no angle can be laid off with satisfactory accuracy; particularly when the angles are laid off dependant upon one another successively.

$$\text{Refr.} = 56,79 \text{ tang. (D.Z.} - 3,2 \text{ Refr.) } \frac{\text{B A. } 500}{29,6} \cdot 450 + \text{Th.}$$

# USEFUL NUMBERS AND FORMULÆ.

Circumference of the Circle in Diameters	= 3,141592653589793238463	log. = 0,4271429
Circumference in seconds	= 1296000	log. = 6,1126050
Arc equal to Radius	= 57°. 17'. 44". 8	log. = 5,3144251
1°. in parts of Radius	= 0,01745329419943295769236908	log. = 8,2418774
Modulus of common log.	= 2,3025850929940456840179914547	log. = 0,434292448190325182765
Log. nat. N = 2,3025850930	× log. vulg. N.	
Basis of natural Logarithms	= 2,718281828459045235360287471352662498	
Metre in English inches	= 39,3809171	log. = 1,5952858
French toise	= 76,74334472	log. = 1,8850408
Metre in parts of French toise	= 0,5131704	log. = 9,7102513
French Kilogramme in English imperial lbs. Troy.	= 2,67937	log. = 0,4280326
— — — — —	gallons. = 0,2209587	log. = 9,3443308
British imperial gallon	= 277,274 cub. inch	log. = 2,4429092
Bar 30" Ther. 62° F. 1 cubic inch distilled water	= 252,458 gr. Troy	log. = 2,4021892
Expansion from freezing, to boiling of Water.		
Platinum	Specific gravity. 19,500—24,669	0,0008842
Iron	7,207—7,788	0,0012534363
Brass	8,396—8,544	0,0018916254
Mercury	13,538	0,018018
Gold	19,258—19,361	0,001466
Silver	10,474	0,001909
Water	1,0	0,0466
Greatest density of Water is 39°, 8° Fahr.		
— — — — —	expansibility of air at 57°, 87 Fahr.	
Velocity of sound in 1 second time	= 1142 feet English.	log. = 3,0576661
Fall of heavy bodies in 1" = 16,089		
Diameter of earth in English feet (mean)	= 41836420.	log. = 7,6215546
Ellipticity of earth,	by measures = 0,003415; by Pendulum = 0,0034483; by (C. a. theory. = 0,0032787;	
Length of Pendulum at { Paris, = 39,12843 Borda 39,12820 Sabine.		
{ London, = 39,13908		
{ New-York, = 39,10120		
New-York, (City Hall,) latitude = 40°. 42'. 30". 4 longitude = 74°. 03'. 05". 2.		
Difference of longitude between Paris and Greenwich = 2°. 30'. 17". 173 = 0. 9'. 21". 17.		
Seconds of time in 24 hours = 86400"		log. = 4,9355137
24 hours mean solar time = 1. 00. 03. 56.5554 Sidereal time.		
— — — — — sidereal time = 23. 56. 04.0907 mean solar time.		
Mean Acceleration of fixed stars = 0. 3. 55.9093		
Sidereal year = 365. 6. 9. 10.7496		
Tropical year = 365. 5. 48. 47.8192		
Sidereal revolution of the Moon = 29. 51305885.		
Synodic Month = 27. 3215830.		
Distance of the Earth from the Sun in Earth Diameters. = 12156,8 log. = 4,0862439		
— — — — — Moon. { greatest = 32,744 log. = 1,5151317		
{ smallest = 27,953 log. = 1,4465061		
Mean horizontal Parallax of ☉ = 8". 6		
{ greatest = 61". 26"		
{ smallest = 53. 46 }		
Diameter of the Sun, in Earth's Diameters = 111.74.		
— — — — — Moon. = 0,27293.		
Mass of the Sun, the Earth being 1 unity, = 329630,0.		
— — — — — Moon. = 0,0146.		
Aberr. of * in AR = 20". 253 (cos. ω cos. AR * cos. long. (C) + sin. AR * sin. long. (C)) : cos. δ		
— — — — — Decl. = 20". 253 cos. long. (C) (sin. ω cos. δ - sin. δ sin. AR * cos. ω)		
+ 20". 253 sin. δ cos. AR * sin. long. (C)		
Nutat. of * in AR = - sin. Ω (16". 5441 + 7". 1822 tang. δ sin. AR *)		
- 9". 643 tang. δ cos. AR * sin. Ω		
Decl. = 9,64 sin AR * cos. Ω - 7". 1822 cos. AR. * sin. Ω		
REDUCTION OF CIRCUM-MERIDIAN ALTITUDES.		
X = $\frac{2 \sin. \frac{1}{2} P. \cos. D. \cos. I.}{\sin. 1" \sin. (L \pm D.)} \left( + 1 - \sin^2 \frac{1}{2} P. \frac{\cos. L. \cos. D. \cot. (L \pm D.)}{\sin. (L \pm D.)} \right)$		
CORRECTION OF NOON BY CORRESPONDING ALTITUDES.		
C = Δ. (- tang. L + tang. D.) : t : 360°. sin. (15°. t)		
ELEMENTS OF SUN'S APPARENT ORBIT; for 1800 + t.		
General annual precession of Equinox = 50". 22350 + (0,0002443610) t		
Inclination of Ecliptic to true Equator = 23°. 27'. 54". 8 - (0". 457) t + (8". 97797) cos. δ		
- (0". 08773) cos. 2δ + (0". 57990) cos. 2(C) + (0". 08733) cos. 2(C)		
Excentricity of Earth's orbit = 0,0167722585 - (0,0000004359) t		
Longitude of Perigee = 279°. 30'. 08". 39 + (61". 5171) t + (0". 0002037965) t²		
Mean Longitude of sun = 279°. 54'. 01". 36 + (27". 605344) t + (0". 0001221805) t²		

# FORMULÆ OF PLANE TRIGONOMETRY.

Data.	Sought.	Final Formulæ.	Auxiliaries.
$b, c, B$	$C$	$\sin C = \frac{c \sin B}{b}$	
$b, B, C$	$c$	$c = \frac{b \sin C}{\sin B}$	$B = 90^\circ - \frac{1}{2} A + \frac{1}{2} (B + C)$
$b, c, A$	$B - C$	$\tan \frac{1}{2} (B - C) = \cot \frac{1}{2} A \frac{b - c}{b + c}$	$C = 90^\circ - \frac{1}{2} A - \frac{1}{2} (B - C)$
$a, B, c$	$b$	$b = \frac{a \cos c}{\cos x}$	$\tan x = \frac{2 \sin \frac{1}{2} B}{a \cos c} (a c)^{\frac{1}{2}}$
		$b = (a + c) \sin x$	$\cos x = \frac{2 \cos \frac{1}{2} B}{a + b + c} (a c)^{\frac{1}{2}}$
$a, b, c$	$B$	$\tan \frac{1}{2} B = \left( \frac{(p - a)(p - c)}{p(p - b)} \right)^{\frac{1}{2}}$	$p = \frac{a + b + c}{2}$

## FORMULÆ OF SPHERIC TRIGONOMETRY.

$c, B, b$	$C$	$\sin C = \frac{\sin B \sin c}{\sin b}$	
$B, c, C$	$b$	$\sin b = \frac{\sin C \sin c}{\sin B}$	
$a, b, c$	$A$	$\tan \frac{1}{2} A = \left( \frac{\sin(p - c) \sin(p - b)}{\cos p \sin(p - a)} \right)^{\frac{1}{2}}$	$p = \frac{a + b + c}{2}$
$A, B, C$	$a$	$\tan \frac{1}{2} a = \left( \frac{\cos(P - C) \cos(P - B)}{\cos(P - A)} \right)^{\frac{1}{2}}$	$P = \frac{A + B + C}{2}$
$A, c, b$	$a$	$\sin \frac{1}{2} a = \frac{\sin \frac{1}{2} (c \cos b)}{\cos Z}$	$\tan Z = \frac{\sin \frac{1}{2} A}{\sin \frac{1}{2} (c \cos b)} \left( \sin b \sin c \right)^{\frac{1}{2}}$
$B, a, C$	$A$	$\sin \frac{1}{2} A = \frac{\cos \frac{1}{2} (B + C)}{\cos Z}$	$\tan Z = \frac{\sin \frac{1}{2} a}{\cos \frac{1}{2} (B + C)} \left( \sin B \sin C \right)^{\frac{1}{2}}$
$C, a, b$	$A, B,$	$\tan \frac{1}{2} (A + B) = \cot \frac{1}{2} C \cdot \frac{\cos \frac{1}{2} (a \cos b)}{\cos \frac{1}{2} (a + b)}$	
		$\tan \frac{1}{2} (A \cos B) = \cot \frac{1}{2} C \cdot \frac{\sin \frac{1}{2} (a \cos b)}{\sin \frac{1}{2} (a + b)}$	
$A, c, B$	$a, b,$	$\tan \frac{1}{2} (a + b) = \tan \frac{1}{2} c \cdot \frac{\cos \frac{1}{2} (B \cos A)}{\cos \frac{1}{2} (B + A)}$	
		$\tan \frac{1}{2} (a \cos b) = \tan \frac{1}{2} c \cdot \frac{\sin \frac{1}{2} (A \cos B)}{\sin \frac{1}{2} (A + B)}$	
$a, A, b$	$c$	$c = x + y$ $\tan x = \cos A \tan b$ $\tan y = \tan a \cos B$	$\sin B = \frac{\sin A \sin b}{\sin a}$
$A, a, B$	$C$	$C = x + y$ $\cot x = \cos a \tan B$ $\cot y = \tan A \cos b$	$\sin b = \frac{\sin a \sin B}{\sin A}$
		$c = x + y$ $\tan x = \tan a \cos B$ $\tan y = \tan b \cos A$	$\sin b = \frac{\sin B \sin a}{\sin A}$
$B, a, C$	$c$	$C = x + y$ $\cot x = \cos a \tan B$ $\cot y = \cos b \tan A$	$\sin B = \frac{\sin A \sin b}{\sin a}$
$b, a, A$	$C$		

N.	0	1	2	3	4	5	6	7	8	9	diff. et p.	
1000	000	0000	0434	0869	1303	1737	2171	2605	3039	3473	3907	434
01		4341	4775	5208	5642	6076	6510	6943	7377	7810	8244	1 43
02	001	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576	2 87 433
03		3009	3442	3875	4308	4741	5174	5607	6039	6472	6905	3 130
04	002	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228	4 174 432
1005		1661	2093	2525	2957	3389	3821	4253	4685	5116	5548	5 217 1 43
05		5980	6411	6843	7275	7706	8138	8569	9001	9432	9863	6 260 2 86
07	003	0295	0726	1157	1588	2019	2451	2882	3313	3744	4174	7 304 3 130 431
08		4505	5036	5467	5898	6328	6759	7190	7620	8051	8481	8 347 4 173
09	004	8912	9342	9772	0203	0633	1063	1493	1924	2354	2784	9 391 5 216 430
1010		3214	3644	4074	4504	4933	5363	5793	6223	6652	7082	6 259 1 43
11	005	7512	7941	8371	8800	9229	9659	0088	0517	0947	1376	7 302 2 86
12		1805	2234	2663	3092	3521	3950	4379	4808	5237	5666	8 346 3 129
13		6034	6523	6952	7380	7809	8238	8666	9094	9523	9951	9 389 4 172
14	006	0380	0808	1236	1664	2092	2521	2949	3377	3805	4233	5 215 6 258
1015		4660	5088	5516	5944	6372	6799	7227	7655	8082	8510	7 301 2 86
16	007	8937	9365	9792	0219	0647	1074	1501	1928	2355	2782	8 342 3 128
17		3210	3637	4064	4490	4917	5344	5771	6198	6624	7051	9 385 4 171
18	008	7478	7904	8331	8757	9184	9610	0037	0463	0889	1316	5 214 426
19		1742	2168	2594	3020	3446	3872	4298	4724	5150	5576	6 257 1 43
1020		6002	6427	6853	7279	7704	8130	8556	8981	9407	9832	7 300 2 85
21	009	0257	0683	1108	1533	1959	2384	2809	3234	3659	4084	8 342 3 128
22		4509	4934	5359	5784	6208	6633	7058	7483	7907	8332	9 385 4 170
23	010	8756	9181	9605	0030	0454	0878	1303	1727	2151	2575	5 213 424
24		3000	3424	3848	4272	4696	5120	5544	5967	6391	6815	6 256 1 43
1025	011	7239	7662	8086	8510	8933	9357	9780	0204	0627	1050	7 298 2 85
26		1474	1897	2320	2743	3166	3590	4013	4436	4859	5282	8 341 3 127
27		5044	5467	5890	6313	6736	7158	8241	8464	9086	9509	9 383 4 170
28	012	9931	0354	0776	1198	1621	2043	2465	2887	3310	3732	5 212 422
29		4154	4576	4998	5420	5842	6264	6685	7107	7529	7951	6 254 1 42
1030	013	8372	8794	9215	9637	0059	0480	0901	1323	1744	2165	7 296 2 84
31		2587	3008	3429	3850	4271	4692	5113	5534	5955	6376	8 338 3 126
32	014	8677	9098	9519	9940	0361	0782	1203	1624	2045	2466	9 381 4 168
33		1003	1424	1844	2264	2685	3105	3525	3945	4365	4785	5 211 419
34		5205	5625	6045	6465	6885	7305	7725	8144	8564	8984	6 250 1 41
1035	015	9403	9823	0243	0662	1082	1501	1920	2340	2759	3178	7 298 2 84
36		3598	4017	4436	4855	5274	5693	6112	6531	6950	7369	8 336 3 125
37	016	7788	8206	8625	9044	9462	9881	0300	0718	1137	1555	9 381 4 168
38		1974	2392	2810	3228	3647	4065	4483	4901	5319	5737	5 209 1 40
39		6155	6573	6991	7409	7827	8245	8663	9080	9498	9916	6 253 2 83
1040	017	0333	0751	1168	1586	2003	2421	2838	3256	3673	4090	7 295 1 42
41		4507	4924	5342	5759	6176	6593	7010	7427	7844	8260	8 334 3 124
42	018	8677	9094	9511	9927	0344	0761	1177	1594	2010	2427	9 379 4 166
43		2843	3259	3676	4092	4508	4925	5341	5757	6173	6589	5 207 1 41
44	019	7005	7421	7837	8253	8669	9084	9500	9916	0332	0747	6 250 2 82
1045		1163	1578	1994	2410	2825	3240	3656	4071	4486	4902	7 292 1 40
46		5317	5732	6147	6562	6977	7392	7807	8222	8637	9052	8 334 3 123
47	020	9467	9882	0296	0711	1126	1540	1955	2369	2784	3198	9 375 4 164
48		3613	4027	4442	4856	5270	5684	6099	6513	6927	7341	5 205 1 39
49	021	7755	8169	8583	8997	9411	9824	0238	0652	1066	1479	6 248 2 81
1050		1893	2307	2720	3134	3547	3961	4374	4787	5201	5614	7 290 1 40
51		6027	6440	6854	7267	7680	8093	8506	8919	9332	9745	8 331 2 80
52	022	0157	0570	0983	1396	1808	2221	2634	3046	3459	3871	9 373 4 162
53		4284	4696	5109	5521	5933	6345	6758	7170	7582	7994	5 204 1 38
54	023	8406	8818	9230	9642	0054	0466	0878	1289	1701	2113	6 247 2 79
1055		2525	2936	3348	3759	4171	4582	4994	5405	5817	6228	7 288 1 37
56	024	6639	7050	7462	7873	8284	8695	9106	9517	9928	0339	8 329 4 160
57		0750	1161	1572	1982	2393	2804	3214	3625	4036	4446	9 372 5 206
58		4857	5267	5678	6088	6498	6909	7319	7729	8139	8549	5 205 6 247
59	025	8960	9370	9780	0190	0600	1010	1419	1829	2239	2649	6 247 7 288
N.	0	1	2	3	4	5	6	7	8	9		9 370 8 329 9 371



N.	0	1	2	3	4	5	6	7	8	9	diff. et p.	
1060	025	3059	3468	3878	4288	4697	5107	5516	5926	6335	6744	
61	026	7154	7563	7972	8382	8791	9200	9609	0018	0427	0836	409
62		1245	1654	2063	2472	2881	3289	3698	4107	4515	4924	
63		5333	5741	6150	6558	6967	7375	7783	8192	8600	9008	
64	027	9416	9824	0233	0641	1049	1457	1865	2273	2680	3088	408
1065		3496	3904	4312	4719	5127	5535	5942	6350	6757	7165	407
66	028	7572	7979	8387	8794	9201	9609	0016	0423	0830	1237	
67		1644	2051	2458	2865	3272	3679	4086	4492	4899	5306	405
68		5713	6119	6526	6932	7339	7745	8152	8558	8964	9371	
69	029	9777	0183	0590	0996	1402	1808	2214	2620	3026	3432	
1070		3838	4244	4649	5055	5461	5867	6272	6678	7084	7489	404
71	030	7895	8300	8706	9111	9516	9922	0327	0732	1138	1543	
72		1948	2353	2758	3163	3568	3973	4378	4783	5188	5592	
73		5997	6402	6807	7211	7616	8020	8425	8830	9234	9638	
74	031	0043	0447	0851	1256	1660	2064	2468	2872	3277	3681	
1075		4085	4489	4893	5296	5700	6104	6508	6912	7315	7719	403
76		8123	8526	8930	9333	9737	0140	0544	0947	1350	1754	
77	032	2157	2559	2963	3367	3770	4173	4576	4979	5382	5785	
78		6188	6590	6993	7396	7799	8201	8604	9007	9409	9812	
79	033	0214	0617	1019	1422	1824	2226	2629	3031	3433	3835	402
1080		4238	4640	5042	5444	5846	6248	6650	7052	7453	7855	401
81		8257	8659	9060	9462	9864	0265	0667	1068	1470	1871	
82		2273	2674	3075	3477	3878	4279	4680	5081	5482	5884	
83		6285	6686	7087	7487	7888	8289	8690	9091	9491	9892	399
84	035	0293	0693	1094	1495	1895	2296	2696	3096	3497	3897	
1085		4297	4698	5098	5498	5898	6298	6698	7098	7498	7898	
86		8298	8698	9098	9498	9898	0297	0697	1097	1496	1896	
87	036	2295	2695	3094	3494	3893	4293	4692	5091	5491	5890	
88		6289	6688	7087	7486	7885	8284	8683	9082	9481	9880	
89	037	0279	0678	1076	1475	1874	2272	2671	3070	3468	3867	
1090		4265	4663	5062	5460	5858	6257	6655	7053	7451	7849	
91		8248	8645	9044	9442	9839	0237	0635	1033	1431	1829	
92	038	2226	2624	3022	3419	3817	4214	4612	5009	5407	5804	397
93		6202	6599	6996	7393	7791	8188	8585	8982	9379	9776	
94	039	0173	0570	0967	1364	1761	2158	2554	2951	3348	3745	
1095		4141	4538	4934	5331	5727	6124	6520	6917	7313	7709	
96		8106	8502	8898	9294	9690	0086	0482	0878	1274	1670	
97	040	2066	2462	2858	3254	3650	4045	4441	4837	5232	5628	
98		6023	6419	6814	7210	7605	8001	8396	8791	9187	9582	
99		9777	0372	0767	1162	1557	1952	2347	2742	3137	3532	
1100	041	3227	3622	4016	4411	4806	5200	5595	5990	6384	6779	
01		7873	8268	8662	9056	9451	9845	0239	0633	1028	1422	
02	042	1816	2210	2604	2998	3392	3786	4180	4574	4968	5361	
03		5755	6149	6543	6936	7330	7723	8117	8510	8904	9297	
04		9691	0084	0477	0871	1264	1657	2050	2444	2837	3230	
1105	043	3623	4016	4409	4802	5195	5587	5980	6373	6766	7159	
06		7551	7944	8337	8729	9122	9514	9907	0299	0692	1084	
07	044	1476	1869	2261	2653	3045	3437	3829	4222	4614	5006	
08		5398	5790	6181	6573	6965	7357	7749	8140	8532	8924	
09		9315	9707	0099	0490	0882	1273	1664	2056	2447	2839	
1110	045	3220	3621	4012	4403	4795	5186	5577	5968	6359	6750	
11		7141	7531	7922	8313	8704	9095	9485	9876	0267	0657	
12	046	1048	1438	1829	2219	2610	3000	3391	3781	4171	4561	
13		4952	5342	5732	6122	6512	6902	7292	7682	8072	8462	
14		8852	9242	9632	0021	0411	0801	1190	1580	1970	2359	
1115	047	2749	3138	3528	3917	4306	4696	5085	5474	5864	6253	
16		6642	7031	7420	7809	8198	8587	8976	9365	9754	0143	
17	048	0532	0921	1309	1698	2087	2475	2864	3253	3641	4030	
18		4418	4806	5195	5583	5972	6360	6748	7136	7525	7913	
19	049	8301	8689	9077	9465	9853	0241	0629	1017	1405	1792	
N.	0	1	2	3	4	5	6	7	8	9		

N.	0	1	2	3	4	5	6	7	8	9	diff. et p.	
1120	049	2180	2558	2956	3343	3731	4119	4506	4894	5281	5669	388
21		6056	6444	6831	7218	7606	7993	8380	8767	9154	9541	
22	050	9929	0316	0703	1090	1477	1863	2250	2637	3024	3411	
23		3798	4184	4571	4958	5344	5731	6117	6504	6890	7277	387
24	051	7653	8049	8436	8822	9208	9595	9981	0367	0753	1139	1 39
1125		1525	1911	2297	2683	3069	3456	3841	4227	4612	4998	2 77 386
26		5384	5770	6155	6541	6926	7312	7697	8083	8468	8854	3 116
27	052	9239	9624	0010	0395	0780	1166	1551	1936	2321	2706	4 155
28		3091	3476	3861	4246	4631	5016	5400	5785	6170	6555	5 194
29	053	6939	7324	7709	8093	8478	8862	9247	9631	0016	0400	6 232 385
1130		0784	1169	1553	1937	2321	2706	3090	3474	3858	4242	7 271 1 39
31		4626	5010	5394	5778	6162	6546	6929	7313	7697	8081	8 310 2 77 384
32	054	8464	8848	9232	9615	9999	0382	0766	1149	1532	1916	9 348 3 116
33		2299	2682	3066	3449	3832	4215	4598	4981	5365	5748	4 154
34		6131	6514	6896	7279	7662	8045	8428	8811	9193	9576	5 193
1135	055	9959	0341	0724	1106	1489	1871	2254	2636	3019	3401	6 231 383
36		3783	4166	4548	4930	5312	5694	6077	6459	6841	7223	7 270 1 38
37	056	7505	7887	8269	8650	9032	9414	9796	0178	0560	0941	8 308 2 77
38		1423	1804	2186	2567	2949	3330	3712	4093	4475	4856	9 347 3 115
39		5237	5619	6000	6381	6762	7143	7524	7905	8287	8668	4 152
1140	057	9049	9429	9810	0191	0572	0953	1334	1714	2095	2476	5 191
41		2856	3237	3618	3998	4379	4759	5134	5520	5900	6281	6 229
42	058	6661	7041	7422	7802	8182	8562	8942	9322	9702	0082	7 267 379
43		0462	0842	1222	1602	1982	2362	2741	3121	3501	3881	8 305
44		4660	4640	5019	5397	5778	6158	6537	6917	7296	7676	9 344
1145	059	8055	8434	8813	9193	9572	9951	0330	0709	1088	1467	1 38
46		1845	2225	2604	2983	3362	3741	4119	4498	4877	5256	2 76
47		5634	6013	6391	6770	7148	7527	7905	8284	8662	9041	3 114
48	060	9419	9797	0175	0554	0932	1310	1688	2066	2444	2822	4 152
49		3200	3578	3956	4334	4712	5090	5468	5845	6223	6601	5 190
1150	061	6978	7356	7734	8111	8489	8866	9244	9621	9999	0376	6 227
51		0753	1131	1508	1885	2262	2639	3017	3394	3771	4148	7 265 377
52		4525	4902	5279	5656	6032	6409	6786	7163	7540	7916	8 303 1 38
53	062	8293	8670	9045	9423	9799	0176	0552	0929	1305	1682	9 341
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84	3517	3884	4251	4617	4984	5351	5717	6084	6450	6817	1 37
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37		4568	4870	5172	5474	5776	6079	6381	6683	6985	3 91
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47		4695	4995	5296	5596	5896	6196	6496	6796	7096	8 241
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86		3032	3306	3579	3853	4127	4401	4674	4948	5222	1 27
87		5769	6043	6317	6590	6864	7137	7411	7684	7958	2 55
88		8505	8778	9052	9325	9599	9872	0146	0419	0692	3 82
89		1239	1512	1786	2059	2332	2605	2879	3152	3425	4 110
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91		6702	6975	7248	7521	7794	8066	8339	8612	8885	6 164
92		9431	9703	9976	0249	0522	0794	1067	1340	1612	7 192
93		2158	2430	2703	2976	3248	3521	3793	4066	4338	8 219
94		4883	5155	5428	5700	5973	6245	6518	6790	7062	9 247
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96		0329	0601	0873	1145	1417	1689	1961	2233	2505	2 55
97		3049	3321	3593	3865	4137	4409	4681	4952	5224	3 82
98		5763	6040	6311	6583	6855	7126	7398	7670	7941	4 109
99		8485	8756	9028	9299	9571	9842	0114	0385	0657	5 136
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01		3913	4185	4456	4727	4998	5269	5541	5812	6083	6354	1 27
02		6625	6896	7167	7438	7709	7980	8251	8522	8793	9064	2 54
03	205	9335	9606	9877	0148	0419	0690	0960	1231	1502	1773	3 81
04		2044	2314	2585	2856	3127	3397	3668	3939	4209	4480	4 108
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06		7455	7726	7996	8267	8537	8807	9078	9348	9618	9889	6 163
07	206	0159	0429	0699	0969	1240	1510	1780	2050	2320	2590	7 190
08		2860	3131	3401	3671	3941	4211	4481	4751	5021	5291	8 217
09		5560	5830	6100	6370	6640	6910	7180	7449	7719	7989	9 244
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11		0555	1225	1495	1764	2034	2303	2573	2842	3112	3381	8 216
12		3650	3920	4189	4459	4728	4997	5267	5536	5805	6074	9 243
13		6344	6613	6882	7151	7421	7690	7959	8228	8497	8766	
14	208	9035	9304	9573	9842	0111	0380	0649	0918	1187	1456	269
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16		4414	4682	4951	5220	5488	5757	6026	6294	6563	6832	2 54
17		7100	7369	7637	7906	8174	8443	8711	8980	9248	9517	3 81
18	209	9785	0054	0322	0590	0859	1127	1395	1664	1932	2200	4 108
19		2468	2737	3005	3273	3541	3810	4078	4346	4614	4882	5 136
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21	210	7830	8098	8366	8634	8902	9170	9437	9705	9973	0241	7 188
22		0508	0776	1044	1312	1579	1847	2115	2382	2650	2918	8 215
23		3185	3453	3720	3988	4255	4523	4790	5058	5325	5593	9 241
24		5860	6128	6395	6662	6930	7197	7464	7732	7999	8266	
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26		1205	1472	1740	2007	2274	2541	2808	3075	3342	3609	1 27
27		3876	4142	4409	4676	4943	5210	5477	5744	6010	6277	2 53
28		6544	6811	7078	7344	7611	7878	8144	8411	8678	8944	3 80
29	212	9211	9477	9744	0011	0277	0544	0810	1077	1343	1610	4 107
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31		4540	4806	5072	5338	5605	5871	6137	6403	6669	6935	6 160
32		7202	7468	7734	8000	8266	8532	8798	9064	9330	9596	7 187
33	213	9862	0128	0394	0660	0926	1191	1457	1723	1989	2255	8 214
34		2521	2786	3052	3318	3584	3849	4115	4381	4646	4912	9 239
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37		0487	0752	1017	1283	1548	1813	2078	2343	2609	2874	1 27
38		3139	3404	3669	3934	4199	4464	4730	4995	5260	5525	2 53
39		5790	6055	6319	6584	6849	7114	7379	7644	7909	8174	3 80
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41		1085	1350	1615	1880	2144	2409	2673	2938	3203	3467	5 133
42		3732	3996	4260	4525	4789	5054	5318	5583	5847	6111	6 159
43		6376	6640	6904	7169	7433	7697	7961	8226	8490	8754	7 186
44	216	9018	9282	9546	9811	0075	0339	0603	0867	1131	1395	8 212
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46		4298	4562	4826	5090	5354	5617	5881	6145	6409	6672	7 185
47		6936	7200	7463	7727	7991	8254	8518	8781	9045	9309	8 211
48	217	9572	9836	0099	0363	0626	0890	1153	1416	1680	1943	9 238
49		2207	2470	2733	2997	3260	3523	3786	4050	4313	4576	
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51	218	7471	7734	7997	8260	8523	8786	9049	9312	9575	9838	2 53
52		0100	0363	0626	0889	1152	1415	1677	1940	2203	2466	3 79
53		2729	2991	3254	3517	3779	4042	4305	4567	4830	5092	4 105
54		5355	5618	5880	6143	6405	6668	6930	7193	7455	7718	5 132
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56		0603	0866	1128	1390	1652	1914	2177	2439	2701	2963	7 184
57		3225	3487	3749	4011	4273	4535	4797	5059	5321	5583	8 210
58		5845	6107	6369	6631	6893	7155	7417	7679	7940	8202	9 237
59	220	8464	8726	8987	9249	9511	9773	0034	0296	0558	0819	
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61		3696	3958	4219	4481	4742	5003	5265	5526	5788	6049	1 26
62		6310	6571	6833	7094	7355	7617	7878	8139	8400	8661	2 52
63	221	8922	9184	9445	9706	9967	0228	0489	0750	1011	1272	3 78
64		1533	1794	2055	2316	2577	2838	3099	3360	3621	3882	4 104
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66		6750	7011	7271	7532	7793	8053	8314	8574	8836	9095	6 157
67	222	9356	9617	9877	0138	0398	0658	0919	1179	1440	1700	7 183
68		1960	2221	2481	2741	3002	3262	3522	3783	4043	4303	8 209
69		4563	4824	5084	5344	5604	5864	6124	6384	6645	6905	9 235
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71	223	9764	0024	0284	0544	0804	1064	1324	1583	1843	2103	2 52
72		2363	2622	2882	3142	3402	3661	3921	4181	4440	4700	3 78
73		4959	5219	5479	5738	5998	6257	6517	6776	7036	7295	4 104
74		7555	7814	8073	8333	8592	8852	9111	9370	9630	9889	5 130
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76		2740	2999	3258	3517	3777	4036	4295	4554	4813	5072	7 182
77		5331	5590	5849	6107	6366	6625	6884	7143	7402	7661	8 208
78	225	7920	8178	8437	8696	8955	9213	9472	9731	9990	0248	9 234
79		0507	0766	1024	1283	1541	1800	2059	2317	2576	2834	1 26
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81		5977	6235	6494	6752	6910	7169	7427	7685	7943	8202	3 78
82	226	8260	8518	8776	9034	9293	9551	9809	0067	0325	0583	4 104
83		0841	1099	1357	1615	1873	2131	2389	2647	2905	3163	5 130
84		3421	3679	3937	4194	4452	4710	4968	5226	5484	5741	6 156
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86	227	8576	8833	9091	9348	9606	9863	0121	0378	0636	0893	8 208
87		1151	1408	1666	1923	2180	2438	2695	2953	3210	3467	9 234
88		3724	3982	4239	4496	4753	5011	5268	5525	5782	6039	1 26
89		6296	6554	6811	7068	7325	7582	7839	8096	8353	8610	2 52
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91		1436	1693	1950	2206	2463	2720	2977	3233	3490	3747	4 104
92		4004	4260	4517	4774	5030	5287	5543	5800	6057	6313	5 130
93		6570	6826	7083	7339	7596	7852	8108	8365	8621	8878	6 156
94	229	9134	9390	9647	9903	0159	0416	0672	0928	1185	1441	7 182
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96		4258	4515	4771	5027	5283	5539	5795	6051	6307	6562	9 234
97		6818	7074	7330	7586	7842	8098	8354	8609	8865	9121	1 26
98	230	9377	9633	9888	0144	0400	0656	0911	1167	1423	1678	2 52
99		1934	2189	2445	2701	2956	3212	3467	3723	3978	4234	3 78
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01		7043	7298	7554	7809	8064	8320	8575	8830	9085	9340	5 130
02	231	9596	9851	0106	0361	0616	0871	1126	1381	1636	1891	6 156
03		2146	2401	2656	2911	3166	3421	3676	3931	4186	4441	7 182
04		4696	4951	5206	5460	5715	5970	6225	6480	6734	6989	8 208
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06	232	9799	0045	0299	0554	0808	1063	1317	1572	1826	2081	1 26
07		2335	2590	2844	3098	3353	3607	3861	4116	4370	4624	2 52
08		4879	5133	5387	5641	5896	6150	6404	6658	6912	7166	3 78
09		7421	7675	7929	8183	8437	8691	8945	9199	9453	9707	4 104
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12		5038	5291	5545	5799	6052	6306	6559	6813	7067	7320	7 182
13		7574	7827	8081	8334	8588	8841	9095	9348	9601	9855	8 208
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22		0331	0584	0836	1088	1340	1592	1844	2097	2349	2601	1 25
23		2853	3105	3357	3609	3861	4113	4365	4617	4869	5121	2 50
24		5373	5625	5876	6128	6380	6632	6884	7136	7387	7639	3 76
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26		0408	0660	0911	1163	1414	1666	1917	2169	2420	2672	5 126
27		2923	3175	3426	3678	3929	4181	4432	4683	4935	5186	6 151
28		5437	5689	5940	6191	6443	6694	6945	7196	7448	7699	7 176
29	238	7950	8201	8452	8703	8955	9206	9457	9708	9959	10210	8 202
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31		2971	3222	3473	3724	3974	4225	4476	4727	4977	5228	1 25
32		5479	5730	5980	6231	6482	6732	6983	7234	7484	7735	2 50
33	239	7956	8206	8457	8707	8958	9208	9459	9709	9959	10210	3 75
34		0491	0741	0992	1242	1493	1743	1993	2244	2494	2744	4 100
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36		5477	5727	5978	6228	6478	6728	6978	7228	7478	7728	6 150
37	240	7955	8205	8455	8705	8955	9205	9455	9705	9955	10205	7 175
38		0498	0748	0997	1247	1497	1747	1997	2247	2496	2746	8 200
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42		0482	0731	0980	1229	1479	1728	1977	2226	2476	2725	3 75
43		2974	3223	3472	3721	3970	4220	4469	4718	4967	5216	4 100
44		5465	5714	5963	6212	6461	6710	6959	7208	7457	7705	5 125
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46		0442	0691	0940	1189	1437	1686	1935	2183	2432	2680	7 174
47		2929	3178	3426	3675	3923	4172	4420	4669	4917	5166	8 199
48		5414	5663	5911	6160	6408	6656	6905	7153	7401	7650	9 224
49	243	7858	8106	8355	8603	8851	9100	9348	9596	9844	10092	1 25
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51		2861	3109	3357	3605	3853	4101	4349	4597	4845	5093	3 74
52		5341	5589	5837	6085	6332	6580	6828	7075	7324	7571	4 99
53	244	7819	8067	8315	8562	8810	9058	9305	9553	9801	10048	5 124
54		0296	0543	0791	1039	1286	1534	1781	2029	2276	2524	6 148
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56		5245	5492	5740	5987	6234	6482	6729	6976	7223	7470	8 198
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61	246	7594	7840	8087	8333	8580	8826	9073	9320	9566	9813	4 98
62		0059	0306	0552	0798	1045	1291	1538	1784	2030	2277	5 123
63		2523	2769	3015	3262	3508	3755	4001	4247	4493	4740	6 148
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66	247	9907	10153	10399	10645	10891	11136	11382	11628	11874	12120	9 222
67		2365	2611	2857	3103	3349	3594	3840	4086	4331	4577	1 25
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74	249	9536	9781	10026	10271	10515	10760	11005	11249	11494	11739	8 197
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76		4430	4674	4919	5163	5408	5652	5897	6141	6385	6630	1 25
77		6874	7119	7363	7607	7852	8096	8340	8585	8829	9073	2 49
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42	2836	3132	3368	3604	3839	4075	4311	4546	4782	5018	1 24
43	5253	5489	5725	5960	6196	6431	6667	6903	7138	7374	2 47
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1845	266 9364	0199	0434	0670	0905	1140	1376	1611	1846	2082	4 94
46	2317	2552	2787	3023	3258	3493	3728	3963	4199	4434	5 118
47	4669	4904	5139	5374	5609	5844	6080	6315	6550	6785	6 142
48	7020	7255	7490	7725	7960	8195	8429	8664	8899	9134	7 165
49	267 9369	9604	9839	0074	0309	0543	0778	1013	1248	1483	8 189
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51	4064	4299	4533	4768	5003	5237	5472	5706	5941	6175	
52	6410	6644	6879	7113	7348	7582	7817	8051	8286	8520	1 24
53	268 8754	8989	9223	9457	9692	9926	0160	0394	0629	0863	2 47
54	1097	1332	1566	1800	2034	2268	2503	2737	2971	3205	3 71
1855	3439	3673	3907	4141	4376	4610	4844	5078	5312	5546	4 94
56	5780	6014	6248	6482	6716	6950	7183	7417	7651	7885	5 118
57	269 8119	8353	8587	8821	9054	9288	9522	9756	9990	0223	6 142
58	0457	0691	0925	1158	1392	1626	1859	2093	2327	2560	7 165
59	2794	3028	3261	3495	3728	3962	4195	4429	4662	4896	8 189
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61	7454	7687	7920	8154	8387	8620	8854	9087	9320	9554	1 23
62	270 9797	0030	0263	0496	0730	0963	1195	1429	1662	1895	2 47
63	2129	2362	2595	2828	3061	3294	3527	3760	3993	4226	3 70
64	4459	4692	4925	5158	5391	5624	5857	6090	6323	6556	4 93
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66	271 9116	9349	9582	9815	0047	0280	0513	0746	0978	1211	6 140
67	1443	1576	1708	2141	2374	2606	2839	3071	3304	3536	7 164
68	3769	4001	4234	4466	4699	4931	5163	5396	5628	5861	8 188
69	6093	6325	6558	6790	7022	7255	7487	7719	7952	8184	9 210
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72	3058	3290	3522	3754	3986	4218	4450	4682	4914	5146	3 69
73	5378	5610	5841	6073	6305	6537	6769	7001	7232	7464	4 92
74	7696	7928	8159	8391	8623	8854	9086	9318	9549	9781	5 116
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76	2328	2560	2791	3023	3254	3486	3717	3949	4180	4411	7 162
77	4643	4874	5105	5337	5568	5799	6031	6262	6493	6725	8 186
78	6956	7187	7418	7650	7881	8112	8343	8574	8806	9037	9 209
79	274 9268	9499	9730	9961	0192	0423	0654	0885	1116	1347	1 23
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82	6196	6427	6658	6888	7119	7350	7581	7811	8042	8273	4 92
83	275 8503	8734	8964	9195	9426	9656	9887	0117	0348	0578	5 115
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86	5417	5647	5877	6108	6338	6568	6798	7028	7259	7489	8 184
87	7719	7949	8179	8409	8640	8870	9100	9330	9560	9790	9 207
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89	2320	2549	2779	3009	3239	3469	3699	3929	4158	4388	2 46
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91	6915	7145	7375	7604	7834	8063	8293	8523	8752	8982	4 92
92	277 9211	9441	9670	9900	0129	0359	0588	0818	1047	1277	5 115
93	1506	1736	1965	2194	2424	2653	2883	3112	3341	3570	6 138
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02		2105	2333	2562	2790	3018	3247	3475	3703	3931	4160	1 23
03		4388	4616	4844	5072	5301	5529	5757	5985	6213	6441	2 46
04		6659	6887	7126	7354	7582	7810	8038	8266	8494	8722	3 68
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21		5274	5500	5726	5952	6178	6404	6630	6856	7082	7308	2 45
22		7536	7760	7985	3212	8438	8663	8889	9115	9341	9567	3 68
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24		2051	2276	2502	2728	2953	3179	3405	3630	3856	4082	5 112
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26		6563	6788	7014	7239	7465	7690	7916	8141	8366	8592	7 158
27	285	8317	8543	8768	8993	9219	9444	0169	0394	0620	0845	8 181
28		1070	1296	1521	1746	1971	2196	2422	2647	2872	3097	9 203
29		3322	3547	3773	3998	4223	4448	4673	4898	5123	5348	
1930		5573	5798	6023	6248	6473	6698	6923	7148	7373	7598	1 22
31		7823	8048	8273	8497	8722	8947	9172	9397	9622	9846	2 45
32	286	0071	0296	0521	0746	0970	1195	1420	1644	1869	2094	3 67
33		2319	2543	2768	2993	3217	3442	3666	3891	4116	4340	4 89
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36	287	9054	9278	9502	9726	9951	0175	0399	0624	0848	1072	7 157
37		1296	1520	1745	1969	2193	2417	2641	2865	3090	3314	8 179
38		3533	3757	3981	4205	4429	4653	4878	5103	5328	5552	9 202
39		5778	6002	6226	6450	6674	6898	7122	7346	7570	7793	
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41		0255	0479	0703	0927	1150	1374	1598	1821	2045	2269	2 44
42		2492	2716	2939	3163	3387	3610	3834	4057	4281	4504	3 67
43		4728	4952	5175	5399	5622	5845	6069	6292	6516	6739	4 89
44		6963	7186	7409	7632	7856	8079	8303	8526	8749	8973	5 112
1945	289	9196	9419	9643	9865	0089	0312	0536	0759	0982	1205	6 136
46		1428	1652	1875	2098	2321	2544	2767	2990	3213	3436	7 156
47		3660	3883	4106	4329	4552	4775	4998	5221	5444	5667	8 178
48		5890	6112	6335	6558	6781	7004	7227	7450	7673	7896	9 201
49	290	8118	8341	8564	8787	9010	9232	9455	9678	9901	0123	1 22
1950		0346	0569	0792	1014	1237	1460	1682	1905	2127	2350	2 44
51		2573	2795	3018	3240	3463	3686	3908	4131	4353	4576	3 67
52		4798	5021	5243	5466	5688	5910	6133	6355	6578	6800	4 89
53		7022	7245	7467	7690	7912	8134	8356	8579	8801	9023	5 112
54	291	9246	9468	9690	9912	0135	0357	0579	0801	1023	1245	6 134
1955		1468	1690	1912	2134	2356	2578	2800	3022	3244	3466	7 156
56		3689	3911	4133	4355	4577	4799	5020	5242	5464	5686	8 178
57		5908	6130	6352	6574	6796	7018	7240	7461	7683	7905	9 201
58		8127	8349	8570	8792	9014	9236	9458	9679	9901	0123	1 22
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61		4776	4997	5219	5440	5662	5883	6105	6326	6547	6769
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63	293	9203	9424	9645	9867	0088	0309	0530	0751	0973	1194
64		1415	1636	1857	2078	2299	2520	2741	2962	3183	3405
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66		5835	6056	6277	6498	6719	6940	7160	7381	7602	7823
67	294	8044	8264	8485	8706	8927	9147	9368	9589	9810	0030
68		0251	0472	0692	0913	1134	1354	1575	1795	2016	2237
69		2457	2678	2898	3119	3339	3560	3780	4001	4221	4442
1970		4662	4883	5103	5324	5544	5764	5985	6205	6426	6646
71		6866	7087	7307	7527	7748	7968	8188	8408	8629	8849
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73		1271	1491	1711	1931	2151	2371	2591	2811	3031	3251
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1975		5671	5891	6111	6331	6550	6770	6990	7210	7430	7650
76		7869	8089	8309	8529	8748	8968	9188	9408	9627	9847
77	296	0067	0286	0506	0726	0945	1165	1385	1604	1824	2043
78		2263	2482	2702	2922	3141	3361	3580	3800	4019	4238
79		4458	4677	4897	5116	5335	5555	5774	5994	6213	6433
1980		6652	6871	7091	7310	7529	7748	7968	8187	8406	8626
81		8845	9064	9283	9502	9722	9941	0160	0379	0598	0817
82	297	1037	1256	1475	1694	1913	2132	2351	2570	2789	3008
83		3227	3446	3665	3884	4103	4322	4541	4760	4979	5198
84		5417	5636	5854	6073	6292	6511	6730	6949	7168	7386
1985		7605	7824	8043	8261	8480	8699	8918	9136	9355	9574
86	298	9792	0011	0230	0448	0667	0886	1104	1323	1542	1760
87		1979	2197	2416	2634	2853	3071	3290	3508	3727	3945
88		4164	4382	4601	4819	5038	5256	5474	5693	5911	6129
89		6348	6565	6785	7003	7221	7439	7658	7876	8094	8313
1990		8531	8749	8967	9185	9404	9622	9840	0058	0276	0494
91	299	0713	0931	1149	1367	1585	1803	2021	2239	2457	2675
92		2893	3111	3329	3547	3765	3983	4201	4419	4637	4855
93		5073	5291	5509	5727	5945	6162	6380	6598	6816	7034
94		7252	7469	7687	7905	8123	8340	8558	8776	8994	9211
1995		9429	9647	9864	0082	0300	0517	0735	0953	1170	1388
96	300	1605	1823	2041	2258	2476	2693	2911	3128	3346	3563
97		3731	3948	4216	4433	4650	4868	5085	5303	5520	5737
98		5955	6172	6390	6607	6824	7042	7259	7476	7693	7911
99	301	8123	8345	8562	8780	8997	9214	9431	9648	9866	0083
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01		2471	2688	2905	3122	3339	3556	3773	3990	4207	4424
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2005		1144	1360	1577	1794	2010	2227	2443	2660	2876	3093
06		3309	3526	3742	3959	4175	4392	4608	4825	5041	5257
07		5474	5690	5906	6123	6339	6556	6772	6988	7204	7421
08		7637	7853	8070	8285	8502	8718	8935	9151	9367	9583
09	303	9799	0016	0232	0448	0664	0880	1096	1312	1528	1745
2010		1961	2177	2393	2609	2825	3041	3257	3473	3689	3905
11		4121	4337	4553	4769	4984	5200	5416	5632	5848	6064
12		6280	6496	6711	6927	7143	7359	7575	7790	8006	8222
13	304	8438	8653	8869	9085	9301	9516	9732	9948	0163	0379
14		0595	0810	1026	1242	1457	1673	1888	2104	2319	2535
2015		2751	2966	3182	3397	3613	3828	4043	4259	4474	4690
16		4905	5121	5336	5552	5767	5982	6198	6413	6628	6844
17		7057	7274	7490	7705	7920	8135	8351	8566	8781	8996
18	305	9212	9427	9642	9857	0072	0288	0503	0718	0933	1148
19		1363	1579	1793	2008	2224	2439	2654	2869	3084	3299
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22	7812	8026	8241	8456	8671	8885	9100	9315	9529	9744	2 43
23	306 9959	174	0388	0603	0817	1032	1247	1461	1676	1891	3 65
24	2105	2320	2534	2749	2963	3178	3392	3607	3821	4036	4 86
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26	6334	6609	6823	7037	7252	7466	7680	7895	8109	8323	6 129
27	307 8537	8752	8966	9180	9394	9609	9823	0037	0251	0465	7 151
28	0630	0894	1108	1322	1536	1750	1964	2178	2392	2606	8 172
29	2820	3035	3249	3463	3677	3891	4105	4319	4532	4746	9 194
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31	7099	7313	7527	7741	7954	8168	8382	8596	8810	9023	1 21
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33	1374	1587	1801	2015	2228	2442	2655	2869	3082	3296	3 64
34	3509	3723	3936	4150	4363	4577	4790	5004	5217	5431	4 86
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43	2684	2896	3109	3321	3534	3746	3959	4171	4384	4596	3 64
44	4809	5021	5234	5446	5659	5871	6084	6296	6508	6721	4 85
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47	1178	1391	1603	1815	2027	2239	2451	2663	2875	3087	7 149
48	3300	3512	3724	3936	4148	4360	4572	4784	4996	5208	8 170
49	5420	5632	5843	6055	6267	6479	6691	6903	7115	7327	9 192
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51	312 9657	9868	0080	0292	0504	0715	0927	1139	1350	1562	1 21
52	1774	1985	2197	2408	2620	2832	3043	3255	3466	3678	2 42
53	3889	4101	4313	4524	4736	4947	5159	5370	5581	5793	3 64
54	6004	6216	6427	6639	6850	7061	7273	7484	7696	7907	4 85
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56	0231	0442	0654	0865	1076	1287	1498	1709	1921	2132	6 127
57	2343	2554	2765	2976	3187	3398	3610	3821	4032	4243	7 148
58	4454	4665	4876	5087	5298	5509	5720	5931	6142	6353	8 169
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63	4992	5203	5413	5624	5834	6045	6255	6466	6676	6887	3 63
64	7097	7307	7518	7728	7939	8149	8359	8570	8780	8990	4 84
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66	1303	1513	1724	1934	2144	2354	2564	2774	2985	3195	6 127
67	3405	3615	3825	4035	4245	4455	4665	4875	5085	5295	7 148
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76	2273	2483	2692	2901	3110	3319	3528	3738	3947	4156	6 126
77	4365	4574	4783	4992	5201	5410	5619	5828	6037	6246	7 147
78	6455	6664	6873	7082	7291	7500	7709	7918	8127	8336	8 168
79	318 8545	8754	8963	9172	9380	9589	9798	0007	0216	0425	9 189
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82	4897	5016	5224	5433	5642	5850	6059	6267	6476	6684	2 42
83	6893	7101	7310	7518	7727	7935	8143	8352	8560	8769	3 63
84	8977	9186	9394	9602	9811	0019	0227	0436	0644	0852	4 84
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86	3143	3351	3559	3768	3976	4184	4392	4600	4808	5016	6 125
87	5224	5433	5641	5849	6057	6265	6473	6681	6889	7097	7 146
88	7365	7513	7721	7929	8137	8345	8553	8761	8969	9176	8 167
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91	3540	3748	3956	4163	4371	4579	4786	4994	5202	5409	1 21
92	5617	5824	6032	6240	6447	6655	6864	7070	7277	7485	2 42
93	7692	7900	8107	8315	8522	8730	8937	9145	9352	9559	3 62
94	321	9767	9974	0182	0389	0596	0804	1011	1218	1425	4 83
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96	3913	4120	4327	4534	4742	4949	5156	5363	5570	5777	6 125
97	5984	6191	6398	6606	6813	7020	7227	7434	7641	7848	7 146
98	8055	8262	8469	8676	8883	9090	9297	9504	9711	9917	8 166
99	322	0124	0331	0538	0745	0952	1159	1366	1572	1779	9 187
2100	2193	2400	2607	2813	3020	3227	3434	3640	3847	4054	207
01	4261	4467	4674	4881	5087	5294	5501	5707	5914	6121	1 21
02	6327	6534	6740	6947	7153	7360	7567	7773	7980	8186	2 41
03	323	8393	8599	8806	9012	9219	9425	9632	9838	0045	3 62
04	0457	0664	0870	1077	1283	1489	1696	1902	2108	2315	4 83
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06	4584	4790	4996	5202	5408	5615	5821	6027	6233	6439	6 124
07	6645	6851	7058	7264	7470	7676	7882	8088	8294	8500	7 145
08	324	8706	8912	9118	9324	9530	9736	9942	0148	0354	8 165
09	0766	0972	1178	1384	1589	1795	2001	2207	2413	2619	9 186
2110	2825	3030	3236	3442	3648	3854	4059	4265	4471	4677	206
11	4882	5088	5294	5499	5705	5911	6117	6322	6528	6734	1 21
12	6339	7145	7350	7556	7762	7967	8173	8378	8584	8789	2 41
13	325	8995	9201	9406	9612	9817	0023	0228	0433	0639	3 62
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17	7209	7414	7619	7824	8029	8234	8439	8644	8849	9055	7 144
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19	1310	1515	1719	1924	2129	2334	2539	2744	2949	3154	9 185
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21	5407	5611	5816	6021	6226	6430	6635	6840	7044	7249	1 21
22	7454	7658	7863	8068	8272	8477	8682	8886	9091	9295	2 41
23	327	9500	9705	9909	0114	0318	0523	0727	0932	1136	3 62
24	1545	1750	1954	2158	2363	2567	2772	2976	3181	3385	4 82
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26	5533	5837	6041	6245	6450	6654	6858	7062	7267	7471	6 123
27	7575	7779	8083	8287	8492	8696	8900	9104	9308	9512	7 144
28	328	9716	9920	0124	0328	0533	0737	0941	1145	1349	8 164
29	1797	1961	2165	2369	2572	2776	2980	3184	3388	3592	9 185
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31	5834	6038	6242	6446	6650	6853	7057	7261	7465	7668	1 20
32	7872	8076	8279	8483	8687	8890	9094	9298	9501	9705	2 41
33	329	9999	0112	0316	0519	0723	0926	1130	1334	1537	3 61
34	1944	2148	2351	2555	2758	2962	3165	3369	3572	3775	4 81
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36	6012	6216	6419	6622	6826	7029	7232	7435	7639	7842	6 122
37	8045	8248	8452	8655	8858	9061	9264	9468	9671	9874	7 143
38	330	0077	0280	0483	0686	0889	1093	1296	1499	1702	8 163
39	2103	2311	2514	2717	2920	3123	3326	3529	3732	3935	9 184
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41	6167	6370	6572	6775	6978	7181	7384	7586	7789	7992	1 20
42	8195	8397	8600	8803	9006	9208	9411	9614	9816	0019	2 41
43	0222	0424	0627	0830	1032	1235	1437	1640	1843	2045	3 61
44	2248	2450	2653	2855	3058	3261	3463	3666	3868	4070	4 81
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46	6297	6500	6702	6904	7107	7309	7511	7714	7916	8118	6 122
47	8320	8523	8725	8927	9129	9332	9534	9736	9938	0141	7 142
48	0343	0545	0747	0949	1151	1354	1556	1758	1960	2162	8 162
49	2364	2566	2768	2970	3172	3374	3577	3779	3981	4183	9 183
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51	6404	6606	6808	7010	7212	7414	7615	7817	8019	8221	1 20
52	8423	8624	8826	9028	9230	9432	9633	9835	0037	0239	2 40
53	0440	0642	0844	1045	1247	1449	1650	1852	2054	2255	3 60
54	2457	2659	2860	3062	3263	3465	3667	3868	4070	4271	4 80
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56	6438	6639	6840	7042	7243	7445	7646	7847	8049	8200	6 121
57	8501	8703	8904	9105	9307	9508	9709	9911	0112	0313	7 141
58	0514	0716	0917	1118	1319	1521	1722	1923	2124	2325	8 162
59	2625	2827	2929	3130	3331	3532	3733	3934	4135	4336	9 182
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61	6548	6749	6950	7151	7351	7552	7753	7954	8155	8356	1 20
62	8557	8758	8959	9159	9360	9561	9762	9963	0164	0364	2 40
63	0565	0766	0967	1168	1368	1569	1770	1970	2171	2372	3 60
64	2573	2773	2974	3175	3375	3576	3777	3977	4178	4378	4 80
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66	6585	6785	6986	7186	7386	7587	7787	7988	8188	8389	6 121
67	8589	8790	8990	9190	9391	9591	9791	9992	0192	0392	7 141
68	0593	0793	0993	1194	1394	1594	1795	1995	2195	2395	8 161
69	2596	2796	2996	3196	3396	3597	3797	3997	4197	4397	9 181
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71	6598	6798	6998	7198	7398	7598	7798	7998	8198	8398	1 20
72	8598	8798	8998	9198	9398	9598	9798	9998	0198	0397	2 40
73	0597	0797	0997	1197	1397	1596	1796	1996	2196	2396	3 60
74	2595	2795	2995	3195	3394	3594	3794	3994	4193	4393	4 80
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76	6582	6782	6982	7182	7382	7582	7782	7982	8182	8385	6 120
77	8584	8784	8983	9183	9382	9582	9781	9981	0180	0379	7 140
78	0579	0778	0978	1177	1376	1575	1775	1974	2174	2373	8 160
79	2572	2772	2971	3170	3369	3569	3768	3967	4166	4366	9 180
2180	4565	4764	4963	5163	5362	5561	5760	5959	6158	6358	199
81	6557	6756	6955	7154	7353	7552	7751	7950	8149	8348	1 20
82	8547	8746	8946	9145	9344	9543	9742	9940	0139	0338	2 40
83	0537	0736	0935	1134	1333	1532	1731	1930	2129	2327	3 60
84	2526	2725	2924	3123	3322	3520	3719	3918	4117	4316	4 80
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86	6502	6700	6899	7098	7296	7495	7693	7892	8091	8289	6 120
87	8488	8686	8885	9084	9282	9481	9679	9878	0076	0275	7 140
88	0473	0672	0870	1069	1267	1466	1664	1862	2061	2259	8 160
89	2458	2656	2854	3053	3251	3449	3648	3846	4045	4243	9 180
2190	4441	4639	4838	5036	5234	5433	5631	5829	6027	6226	198
91	6424	6622	6820	7018	7217	7415	7613	7811	8009	8207	1 20
92	8405	8604	8802	9000	9198	9396	9594	9792	9990	0188	2 40
93	0386	0584	0782	0980	1178	1376	1574	1772	1970	2168	3 60
94	2366	2564	2762	2960	3158	3356	3554	3752	3950	4147	4 80
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97	8301	8498	8696	8894	9091	9289	9486	9684	9882	0079	7 140
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02		8173	8370	8568	8765	8962	9159	9356	9554	9751	9948
03	343	0145	0342	0539	0736	0933	1131	1328	1525	1722	1919
04		2116	2313	2510	2707	2904	3101	3298	3495	3692	3889
2205		4086	4283	4480	4677	4874	5071	5268	5464	5661	5858
06		6056	6252	6449	6646	6842	7039	7235	7433	7630	7827
07		8023	8220	8417	8614	8810	9007	9204	9401	9597	9794
08	344	9991	0187	0384	0581	0777	0974	1171	1367	1564	1761
09		1957	2154	2350	2547	2743	2940	3137	3333	3530	3726
2210		3923	4119	4316	4512	4709	4905	5102	5298	5495	5691
11		5887	6084	6280	6477	6673	6869	7066	7262	7459	7655
12		7851	8048	8244	8440	8636	8833	9029	9225	9422	9618
13	345	9814	0010	0207	0403	0599	0795	0991	1188	1384	1580
14		1776	1972	2168	2365	2561	2757	2953	3149	3345	3541
2215		3737	3933	4129	4325	4522	4718	4914	5110	5305	5502
16		5698	5894	6090	6285	6481	6677	6873	7069	7265	7461
17		7657	7853	8049	8245	8440	8636	8832	9028	9224	9420
18	346	9615	9811	0007	0203	0399	0594	0790	0986	1182	1377
19		1573	1769	1964	2160	2356	2551	2747	2943	3138	3334
2220		3530	3725	3921	4117	4312	4508	4703	4899	5094	5290
21		5486	5681	5877	6072	6268	6463	6659	6854	7050	7245
22		7441	7636	7831	8027	8222	8418	8613	8808	9004	9199
23	347	9395	9590	9785	9981	0176	0371	0567	0762	0957	1153
24		1348	1543	1738	1934	2129	2324	2519	2715	2910	3105
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26		5252	5447	5642	5837	6032	6227	6422	6617	6812	7007
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28	348	9152	9347	9542	9737	9931	0126	0321	0516	0711	0906
29		1101	1296	1490	1685	1880	2075	2270	2464	2659	2854
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31		4996	5190	5385	5580	5774	5969	6164	6358	6553	6747
32		6942	7136	7331	7525	7720	7915	8109	8304	8498	8693
33	349	8897	9092	9286	9481	9675	9869	0064	0258	0453	0647
34		0832	1025	1220	1415	1609	1804	1998	2192	2387	2581
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36		4713	4912	5106	5301	5495	5689	5883	6077	6272	6466
37		6660	6854	7048	7242	7436	7630	7825	8019	8213	8407
38	350	8601	8795	8989	9183	9377	9571	9765	9959	0153	0347
39		0541	0735	0929	1123	1317	1511	1705	1898	2092	2286
2240		2480	2674	2868	3062	3256	3449	3643	3837	4031	4225
41		4419	4612	4805	5000	5194	5387	5581	5775	5969	6162
42		6356	6550	6743	6937	7131	7325	7518	7712	7905	8099
43	351	8293	8486	8680	8874	9067	9261	9454	9648	9841	0035
44		0229	0422	0615	0809	1003	1196	1390	1583	1777	1970
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46		4098	4291	4484	4678	4871	5064	5258	5451	5644	5837
47		6031	6224	6417	6611	6804	6997	7190	7383	7577	7770
48		7763	8156	8349	8543	8736	8929	9122	9315	9508	9701
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51		3755	3948	4141	4334	4527	4720	4912	5105	5298	5491
52		5684	5877	6070	6262	6455	6648	6841	7034	7226	7419
53		7612	7805	7997	8190	8383	8576	8768	8961	9154	9346
54	353	9539	9732	9924	0117	0310	0502	0695	0888	1080	1273
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22	366 8622	8809	8996	9183	9370	9557	9744	9931	0118	0305	2 37
23	0492	0679	0866	1053	1240	1427	1614	1801	1987	2174	3 56
24	2361	2548	2735	2922	3109	3296	3482	3669	3856	4043	4 75
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26	6097	6284	6471	6657	6844	7031	7217	7404	7591	7777	6 112
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28	367 9830	0016	0203	0389	0576	0762	0949	1135	1322	1508	8 150
29	1695	1881	2068	2254	2441	2627	2814	3000	3186	3373	9 168
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33	368 9147	9334	9520	9706	9892	0078	0264	0450	0636	0822	185
34	1009	1195	1381	1567	1753	1939	2125	2311	2497	2683	1 19
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37	6587	6773	6959	7145	7330	7516	7702	7888	8074	8259	4 74
38	369 8445	8631	8817	9002	9188	9374	9559	9745	9931	0117	5 93
39	0302	0488	0674	0859	1045	1230	1416	1602	1787	1973	6 112
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41	4314	4500	4685	4871	5056	5242	5427	5613	5798	5984	8 149
42	5869	6054	6240	6425	6611	6796	6982	7167	7352	7538	9 167
43	7723	7908	8094	8279	8464	8650	8835	9020	9205	9391	
44	370 9576	9761	9947	0132	0317	0502	0688	0873	1058	1243	
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48	6981	7166	7351	7536	7721	7906	8091	8276	8460	8645	1 19
49	8830	9015	9200	9385	9570	9754	9939	0124	0309	0494	2 37
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51	2526	2711	2896	3080	3265	3450	3635	3819	4004	4189	4 74
52	4373	4558	4742	4927	5112	5296	5481	5666	5850	6035	5 93
53	6219	6404	6588	6773	6957	7142	7327	7511	7696	7880	6 111
54	8065	8249	8434	8618	8802	8987	9171	9356	9540	9725	7 130
2355	372 9909	0094	0278	0462	0647	0831	1015	1200	1384	1569	8 148
56	1753	1937	2122	2306	2490	2674	2859	3043	3227	3412	9 167
57	3596	3780	3964	4149	4333	4517	4701	4885	5070	5254	
58	5433	5622	5806	5991	6175	6359	6543	6727	6911	7095	
59	7279	7464	7648	7832	8016	8200	8384	8568	8752	8936	
2360	373 9120	9304	9488	9672	9856	0040	0224	0408	0592	0776	184
61	0960	1144	1328	1512	1696	1879	2063	2247	2431	2615	1 18
62	2797	2981	3165	3350	3534	3718	3902	4086	4270	4453	2 37
63	4637	4821	5005	5189	5372	5556	5740	5924	6107	6291	3 55
64	6475	6658	6842	7026	7210	7393	7577	7761	7944	8128	4 74
2365	8311	8495	8679	8862	9046	9230	9413	9597	9780	9964	5 92
66	374 0147	0331	0515	0698	0882	1065	1249	1432	1616	1799	6 110
67	1983	2166	2350	2533	2716	2900	3083	3267	3450	3634	7 129
68	3817	4000	4184	4367	4551	4734	4917	5101	5284	5467	8 147
69	5651	5834	6017	6201	6384	6567	6750	6934	7117	7300	9 166
2370	7483	7667	7850	8033	8216	8400	8583	8766	8949	9132	
71	375 9316	9499	9682	9865	0048	0231	0414	0598	0781	0964	183
72	1147	1330	1513	1696	1879	2062	2245	2428	2611	2794	1 18
73	2977	3159	3342	3525	3709	3892	4075	4258	4441	4624	2 37
74	4807	4990	5173	5356	5539	5722	5905	6088	6270	6453	3 55
2375	6636	6819	7002	7185	7368	7550	7733	7916	8099	8282	4 73
76	376 8464	8647	8830	9013	9195	9378	9561	9744	9926	0109	5 92
77	0272	0455	0637	0820	1003	1185	1368	1551	1733	1916	6 110
78	2119	2301	2484	2666	2849	3032	3214	3397	3579	3762	7 128
79	3944	4127	4310	4492	4675	4857	5040	5222	5405	5587	8 146
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2380	376 5770	5522	6135	6317	6499	6682	6854	7047	7223	7412	
81	7594	7776	7959	8141	8323	8506	8688	8871	9053	9235	
82	377 9418	9600	9782	9965	0147	0329	0511	0694	0876	1058	182
83	1240	1423	1605	1787	1969	2152	2334	2516	2698	2880	1 18
84	3063	3245	3427	3609	3791	3973	4155	4338	4520	4702	2 36
2385	4884	5066	5248	5430	5612	5794	5976	6158	6340	6522	3 55
86	6704	6886	7068	7250	7432	7614	7796	7978	8160	8342	4 73
87	378 8524	8706	8888	9070	9252	9434	9616	9798	9979	0161	5 91
88	0343	0525	0707	0889	1071	1252	1434	1616	1798	1980	6 109
89	2161	2343	2525	2707	2889	3070	3252	3434	3616	3797	7 127
2390	3979	4161	4342	4524	4706	4887	5069	5251	5432	5614	8 146
91	5796	5977	6159	6341	6522	6704	6885	7067	7249	7430	9 164
92	7612	7793	7975	8156	8338	8519	8701	8882	9064	9245	
93	379 9427	9608	9790	9971	0153	0334	0516	0697	0879	1060	
94	1241	1423	1604	1786	1967	2148	2330	2511	2692	2874	
2395	3055	3237	3418	3599	3780	3962	4143	4324	4505	4687	
96	4868	5049	5231	5412	5593	5774	5956	6137	6318	6499	
97	6680	6862	7043	7224	7405	7586	7767	7948	8130	8311	
98	380 8492	8673	8854	9035	9216	9397	9578	9759	9940	0121	181
99	0302	0484	0665	0846	1027	1208	1389	1570	1750	1931	1 18
2400	2112	2293	2474	2655	2836	3017	3198	3379	3560	3741	2 36
01	3922	4102	4283	4464	4645	4826	5007	5188	5368	5549	3 54
02	5730	5911	6092	6272	6453	6634	6815	6995	7176	7357	4 72
03	7538	7718	7899	8080	8261	8441	8622	8803	8983	9164	5 91
04	381 9345	9525	9706	9887	0067	0248	0428	0609	0790	0970	6 109
2405	1151	1331	1512	1693	1873	2054	2234	2415	2595	2776	7 127
06	2956	3137	3317	3498	3678	3859	4039	4220	4400	4580	8 145
07	4761	4941	5122	5302	5483	5663	5843	6024	6204	6384	9 163
08	6566	6745	6926	7106	7286	7467	7647	7827	8007	8188	
09	8368	8548	8729	8909	9089	9269	9450	9630	9810	9990	
2410	382 0170	0351	0531	0711	0891	1071	1252	1432	1612	1792	
11	1972	2152	2332	2512	2693	2873	3053	3233	3413	3593	
12	3773	3953	4133	4313	4493	4673	4853	5033	5213	5393	
13	5573	5753	5933	6113	6293	6473	6653	6833	7013	7193	
14	7373	7553	7732	7912	8092	8272	8452	8632	8812	8992	
2415	383 9171	9351	9531	9711	9891	0070	0250	0430	0610	0790	
16	0969	1149	1329	1509	1688	1868	2048	2227	2407	2587	
17	2767	2946	3126	3306	3485	3665	3844	4024	4204	4383	
18	4563	4743	4922	5102	5281	5461	5640	5820	6000	6179	
19	6359	6538	6718	6897	7077	7256	7436	7615	7795	7974	
2420	8154	8333	8513	8692	8871	9051	9230	9410	9589	9769	
21	384 9948	0127	0307	0485	0665	0845	1024	1203	1383	1562	
22	1741	1921	2100	2279	2459	2638	2817	2996	3176	3355	
23	3534	3713	3893	4072	4251	4430	4609	4788	4968	5147	
24	5326	5505	5684	5864	6043	6222	6401	6580	6759	6938	
2425	7117	7297	7476	7655	7834	8013	8192	8371	8550	8729	
25	385 8908	9087	9266	9445	9624	9802	9982	0161	0340	0519	
27	0698	0877	1056	1235	1413	1592	1771	1950	2129	2308	
28	2487	2665	2845	3023	3202	3381	3560	3739	3918	4096	
29	4275	4454	4633	4812	4990	5169	5348	5527	5705	5884	
2430	6063	6241	6420	6599	6778	6956	7135	7314	7492	7671	
31	7850	8028	8207	8386	8564	8743	8921	9100	9279	9457	
32	386 9636	9814	9993	0171	0350	0528	0707	0885	1064	1243	
33	1421	1600	1778	1957	2135	2314	2492	2670	2849	3027	
34	3205	3384	3563	3741	3919	4098	4276	4455	4633	4811	
2435	4990	5168	5346	5525	5703	5881	6060	6238	6416	6595	
36	6773	6951	7129	7308	7486	7664	7842	8021	8199	8377	
37	387 8555	8733	8912	9090	9268	9446	9624	9803	9981	0159	
38	0337	0515	0693	0871	1049	1228	1406	1584	1762	1940	
39	2113	2296	2474	2652	2830	3008	3186	3364	3542	3720	
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2440	387	3898	4076	4254	4432	4610	4788	4966	5144	5322	178
41		5678	5856	6034	6212	6389	6567	6745	6923	7101	1 18
42		7457	7634	7812	7990	8168	8346	8524	8701	8879	2 36
43	388	9235	9412	9590	9768	9946	0123	0301	0479	0657	3 53
44		1012	1190	1367	1545	1723	1900	2078	2256	2433	4 71
2445		2789	2966	3144	3321	3499	3677	3854	4032	4209	5 89
46		4565	4742	4920	5097	5275	5452	5630	5807	5985	6 107
47		6340	6517	6695	6872	7050	7227	7404	7582	7759	7 125
48		8114	8292	8469	8646	8824	9001	9178	9356	9533	8 144
49	389	9888	0065	0243	0420	0597	0774	0952	1129	1306	9 160
2450		1661	1838	2015	2193	2370	2547	2724	2902	3079	3256
51		3433	3610	3787	3965	4142	4319	4496	4673	4850	5028
52		5205	5382	5559	5736	5913	6090	6267	6444	6621	6798
53		6775	7153	7330	7507	7684	7861	8038	8215	8392	8569
54	390	8746	8923	9100	9276	9453	9630	9807	9984	0161	0338
2455		0515	0692	0869	1046	1223	1399	1576	1753	1930	2107
56		2284	2460	2637	2814	2991	3168	3344	3521	3698	3875
57		4052	4228	4405	4582	4759	4935	5112	5289	5465	5642
58		5819	5995	6172	6349	6525	6702	6879	7055	7232	7409
59		7688	7864	8041	8218	8394	8571	8748	8924	9101	9278
2460	391	9361	9538	9714	9891	0067	0243	0419	0596	0772	0949
61		1116	1293	1469	1646	1822	1998	2175	2351	2528	2704
62		2880	3057	3233	3410	3586	3762	3939	4115	4291	4468
63		4644	4820	4997	5173	5349	5525	5702	5878	6055	6231
64		6407	6583	6760	6936	7112	7288	7464	7641	7817	7993
2465		8169	8345	8522	8698	8874	9050	9226	9402	9578	9755
66	392	9931	0107	0283	0459	0635	0811	0987	1163	1339	1515
67		1691	1868	2044	2220	2396	2572	2748	2924	3100	3276
68		3452	3628	3803	3979	4155	4331	4507	4683	4859	5035
69		5211	5387	5563	5739	5914	6090	6266	6442	6618	6794
2470		6970	7145	7321	7497	7673	7849	8024	8200	8376	8552
71	393	8727	8903	9079	9255	9430	9606	9782	9958	0133	0309
72		0485	0660	0836	1012	1187	1363	1539	1714	1890	2066
73		2241	2417	2592	2768	2944	3119	3295	3470	3646	3821
74		3997	4172	4348	4524	4699	4875	5050	5226	5401	5577
2475		5732	5928	6103	6278	6454	6629	6805	6980	7156	7331
76		7506	7682	7857	8033	8208	8383	8559	8734	8909	9085
77	394	9260	9435	9611	9786	9961	0137	0312	0487	0662	0838
78		1013	1188	1364	1539	1714	1889	2064	2240	2415	2590
79		2765	2940	3116	3291	3466	3641	3816	3991	4167	4342
2480		4517	4692	4867	5042	5217	5392	5567	5742	5918	6093
81		6268	6443	6618	6793	6968	7143	7318	7493	7668	7843
82		8018	8193	8368	8543	8718	8893	9068	9243	9418	9593
83	395	9767	9942	0117	0292	0467	0642	0817	0991	1166	1341
84		1516	1691	1866	2040	2215	2390	2565	2740	2914	3089
2485		3264	3439	3613	3788	3963	4138	4312	4487	4662	4837
86		5011	5186	5361	5535	5710	5885	6059	6234	6409	6583
87		6758	6932	7107	7282	7456	7631	7805	7980	8155	8329
88	396	8504	8678	8853	9027	9202	9376	9551	9725	9900	0074
89		0249	0423	0598	0772	0947	1121	1296	1470	1645	1819
2490		1993	2168	2342	2517	2691	2865	3040	3214	3389	3563
91		3737	3912	4086	4260	4435	4609	4783	4958	5132	5306
92		5480	5655	5829	6003	6177	6352	6526	6700	6874	7049
93		7223	7397	7571	7745	7920	8094	8268	8442	8616	8790
94	397	8964	9139	9313	9487	9661	9835	0009	0183	0357	0531
2495		0705	0880	1054	1228	1402	1576	1750	1924	2098	2272
96		2446	2620	2794	2968	3142	3316	3490	3664	3838	4011
97		4188	4362	4536	4709	4883	5057	5230	5404	5578	5752
98		5924	6098	6272	6446	6620	6794	6967	7141	7315	7489
99		7663	7836	8010	8184	8358	8531	8705	8879	9053	9226
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61		4095	4265	4435	4604	4774	4944	5113	5283	5452	5622
62		5791	5961	6130	6300	6469	6639	6808	6978	7147	7317
63		7436	7606	7775	7944	8114	8283	8453	8622	8791	8961
64	409	9180	9350	9519	9688	9858	0027	0196	0366	0535	0704
2565		0874	1043	1212	1382	1551	1720	1889	2059	2228	2397
66		2567	2736	2905	3074	3243	3413	3582	3751	3920	4089
67		4259	4428	4597	4765	4935	5105	5274	5443	5612	5781
68		5950	6119	6288	6458	6627	6796	6965	7134	7303	7472
69		7641	7810	7979	8148	8317	8486	8655	8824	8993	9162
2570	410	9331	9500	9669	9838	0007	0176	0345	0514	0683	0852
71		1021	1190	1359	1527	1696	1865	2034	2203	2372	2541
72		2710	2878	3047	3216	3385	3554	3723	3891	4060	4229
73		4398	4567	4735	4904	5073	5242	5410	5579	5748	5917
74		6085	6254	6423	6592	6760	6929	7098	7266	7435	7604
2575		7772	7941	8110	8278	8447	8616	8784	8953	9121	9290
76	411	9459	9627	9796	9964	0133	0301	0470	0639	0807	0976
77		1144	1313	1481	1650	1818	1987	2155	2324	2492	2661
78		2829	2998	3166	3334	3503	3671	3840	4008	4177	4345
79		4613	4782	4950	5019	5187	5355	5524	5692	5860	6029
2580		6177	6345	6514	6682	6850	7019	7187	7355	7524	7692
81		7980	8148	8317	8485	8653	8821	8990	9158	9326	9495
82	412	9562	9731	9899	0067	0235	0403	0571	0740	0908	1076
83		1244	1412	1580	1748	1917	2085	2253	2421	2589	2757
84		2925	3093	3261	3429	3597	3765	3933	4101	4269	4437
2585		4605	4773	4941	5109	5277	5445	5613	5781	5949	6117
86		6285	6453	6621	6789	6957	7125	7293	7461	7629	7796
87		7964	8132	8300	8468	8636	8804	8971	9139	9307	9475
88	413	9643	9811	9978	0146	0314	0482	0649	0817	0985	1153
89		1321	1488	1656	1824	1991	2159	2327	2495	2662	2830
2590		2998	3165	3333	3501	3668	3836	4004	4171	4339	4507
91		4674	4842	5009	5177	5345	5512	5680	5847	6015	6182
92		6350	6518	6685	6853	7020	7188	7355	7523	7690	7858
93		8025	8193	8360	8528	8695	8863	9030	9197	9365	9532
94	414	9700	9867	0035	0202	0369	0537	0704	0872	1039	1206
2595		1374	1541	1708	1876	2043	2210	2378	2545	2712	2880
96		3047	3214	3381	3549	3716	3883	4051	4218	4385	4552
97		4719	4887	5054	5221	5388	5556	5723	5890	6057	6224
98		6391	6559	6726	6893	7060	7227	7394	7561	7729	7896
99		8063	8230	8397	8564	8731	8898	9065	9232	9399	9566
2600	415	9733	9901	0068	0235	0402	0569	0736	0903	1070	1237
01		1404	1570	1737	1904	2071	2238	2405	2572	2739	2906
02		3093	3260	3427	3594	3761	3928	4094	4261	4428	4595
03		4742	4909	5075	5242	5409	5576	5743	5909	6076	6243
04		6410	6577	6743	6910	7077	7244	7410	7577	7744	7911
2605		8077	8244	8411	8577	8744	8911	9077	9244	9411	9578
06	416	9744	9911	0077	0244	0411	0577	0744	0911	1077	1244
07		1410	1577	1743	1910	2077	2243	2410	2576	2743	2909
08		3076	3242	3409	3575	3742	3908	4075	4241	4408	4574
09		4741	4907	5074	5240	5407	5573	5739	5906	6072	6239
2610		6405	6571	6738	6904	7071	7237	7403	7570	7736	7902
11		8069	8235	8401	8568	8734	8900	9067	9233	9399	9565
12	417	9732	9898	0064	0231	0397	0563	0729	0895	1062	1228
13		1394	1560	1726	1893	2059	2225	2391	2557	2724	2890
14		3056	3222	3388	3554	3720	3886	4053	4219	4385	4551
2615		4717	4883	5049	5215	5381	5547	5713	5879	6045	6211
16		6377	6543	6709	6875	7041	7207	7373	7539	7705	7871
17		8037	8203	8369	8535	8701	8867	9033	9199	9365	9531
18	418	9636	9802	0028	0194	0360	0526	0692	0857	1023	1189
19		1355	1521	1687	1852	2018	2184	2350	2516	2681	2847
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Log. 428.

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81		2968	3130	3292	3454	3616	3778	3940	4102	4264	4426	1 16
82		4588	4750	4912	5073	5235	5397	5559	5721	5883	6045	2 32
83		6207	6369	6530	6692	6854	7016	7178	7340	7501	7663	3 48
84		7825	7987	8149	8311	8472	8634	8796	8958	9119	9281	4 66
2685	429	9443	9605	9766	9928	0090	0252	0413	0575	0737	0898	5 81
86		1060	1222	1383	1545	1707	1868	2030	2192	2353	2515	6 97
87		2677	2838	3000	3162	3323	3485	3646	3808	3969	4131	7 113
88		4293	4454	4616	4777	4939	5100	5262	5423	5585	5747	8 130
89		5908	6070	6231	6393	6554	6715	6877	7038	7200	7361	9 146
2690		7523	7684	7846	8007	8169	8330	8491	8653	8814	8976	
91		9137	9298	9460	9621	9782	9944	0105	0267	0428	0589	
92	430	0751	0912	1073	1235	1396	1557	1718	1880	2041	2202	
93		2364	2525	2686	2847	3009	3170	3331	3492	3653	3815	
94		3776	4137	4298	4460	4621	4782	4943	5104	5265	5427	
2695		5588	5749	5910	6071	6232	6393	6554	6716	6877	7038	
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97		8809	8970	9132	9293	9454	9615	9776	9937	0098	0258	
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08		6487	6647	6807	6968	7128	7288	7449	7609	7769	7930	
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36		1161	1320	1478	1637	1795	1955	2113	2272	2431	2589	6 96
37		2748	2907	3065	3224	3383	3541	3700	3859	4017	4176	7 111
38		4334	4493	4652	4810	4969	5127	5286	5445	5603	5762	8 127
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97		6925	7080	7235	7390	7546	7701	7856	8011	8167	8322	
98		8477	8632	8788	8943	9098	9253	9408	9563	9719	9874	
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62		6696	6848	7000	7152	7303	7455	7607	7758	7910	8062
63		8213	8365	8517	8669	8820	8972	9124	9275	9427	9578
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67		4277	4428	4580	4731	4883	5034	5186	5337	5489	5640
68		5791	5943	6094	6246	6397	6549	6700	6851	7003	7154
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72		1844	1996	2147	2298	2449	2600	2752	2903	3054	3205
73		3356	3507	3659	3810	3961	4112	4263	4414	4565	4717
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76		7889	8040	8191	8342	8493	8644	8795	8946	9097	9248
77	459	9399	9550	9701	9851	0002	0153	0304	0455	0606	0757
78		0908	1059	1210	1361	1511	1662	1813	1964	2115	2266
79		2417	2567	2718	2869	3020	3171	3322	3472	3623	3774
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87		4468	4618	4769	4919	5070	5220	5370	5521	5671	5822
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89		7475	7626	7776	7926	8077	8227	8377	8528	8678	8828
2890	461	8978	9129	9279	9429	9579	9730	9880	0030	0180	0331
91		0481	0631	0781	0932	1082	1232	1382	1532	1683	1833
92		1983	2133	2283	2433	2584	2734	2884	3034	3184	3334
93		3484	3634	3785	3935	4085	4235	4385	4535	4685	4835
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03		8470	8620	8770	8919	9069	9218	9368	9517	9667	9817
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06		2956	3106	3255	3404	3554	3703	3853	4002	4152	4301
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08		5944	6093	6243	6392	6541	6691	6840	6989	7139	7288
09		7437	7587	7736	7885	8034	8184	8333	8482	8631	8781
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12		1914	2063	2212	2361	2510	2659	2808	2958	3107	3256
13		3405	3554	3703	3852	4001	4150	4299	4448	4597	4746
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76	6329	6475	6621	6767	6913	7057	7205	7351	7497	7642	
77	7788	7934	8080	8226	8372	8518	8664	8809	8955	9101	
78	474 9247	9393	9539	9684	9830	9976	0122	0268	0413	0559	
79	0705	0851	0997	1142	1288	1434	1583	1725	1871	2017	
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81		3620	3765	3911	4057	4202	4348	4494	4639	4785	4931
82		5076	5222	5368	5513	5659	5805	5950	6096	6241	6387
83		6533	6678	6824	6969	7115	7260	7406	7552	7697	7843
84		7988	8134	8279	8425	8570	8716	8861	9007	9152	9298
2985	475	9443	9589	9734	9880	0025	0171	0316	0462	0607	0753
86		0898	1043	1189	1334	1480	1625	1771	1916	2061	2207
87		2352	2498	2643	2788	2934	3079	3225	3370	3515	3661
88		3806	3951	4097	4242	4387	4533	4678	4823	4969	5114
89		5259	5404	5550	5695	5840	5986	6131	6276	6421	6567
2990		6712	6857	7002	7148	7293	7438	7583	7729	7874	8019
91		8164	8309	8455	8600	8745	8890	9035	9180	9326	9471
92	476	9616	9761	9906	0051	0196	0342	0487	0632	0777	0922
93		1067	1212	1357	1502	1648	1793	1938	2083	2228	2373
94		2518	2663	2808	2953	3098	3243	3388	3533	3678	3823
2995		3963	4113	4258	4403	4548	4693	4838	4983	5128	5273
96		5418	5563	5708	5853	5998	6143	6288	6433	6578	6723
97		6867	7012	7157	7302	7447	7592	7737	7882	8027	8171
98		8316	8461	8606	8751	8896	9041	9185	9330	9475	9620
99	477	9765	9909	0054	0199	0344	0489	0633	0778	0923	1068
3000		1213	1357	1502	1647	1792	1936	2081	2226	2371	2515
01		2660	2805	2949	3094	3239	3383	3528	3673	3818	3962
02		4107	4252	4396	4541	4686	4830	4975	5119	5264	5409
03		5553	5698	5843	5987	6132	6276	6421	6566	6710	6855
04		6999	7144	7288	7433	7578	7722	7867	8011	8156	8300
3005		8445	8589	8734	8878	9023	9167	9312	9456	9601	9745
06	478	9890	0034	0179	0323	0468	0612	0757	0901	1045	1190
07		1334	1479	1623	1768	1912	2056	2201	2345	2490	2634
08		2778	2923	3067	3211	3356	3500	3645	3789	3933	4078
09		4222	4366	4511	4655	4799	4943	5088	5232	5376	5521
3010		5665	5809	5954	6098	6242	6386	6531	6675	6819	6963
11		7108	7252	7396	7540	7684	7829	7973	8117	8261	8405
12		8550	8694	8838	8982	9126	9271	9415	9559	9703	9847
13	479	9991	0135	0279	0424	0568	0712	0856	1000	1144	1288
14		1432	1577	1721	1865	2009	2153	2297	2441	2585	2729
3015		2873	3017	3161	3305	3449	3593	3737	3881	4025	4169
16		4313	4457	4601	4745	4889	5033	5177	5321	5465	5609
17		5753	5897	6041	6185	6329	6473	6617	6761	6905	7049
18		7192	7336	7480	7624	7768	7912	8056	8200	8343	8487
19		8631	8775	8919	9063	9207	9350	9494	9638	9782	9926
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21		1507	1651	1795	1939	2082	2226	2370	2513	2657	2801
22		2945	3088	3232	3376	3519	3663	3807	3950	4094	4238
23		4381	4525	4669	4812	4956	5100	5243	5387	5531	5674
24		5818	5961	6105	6249	6392	6536	6679	6823	6967	7110
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25		8689	8833	8976	9120	9263	9407	9550	9694	9837	9981
27	481	0124	0268	0411	0555	0698	0842	0985	1128	1272	1415
28		1559	1702	1846	1989	2132	2276	2419	2563	2706	2849
29		2993	3136	3279	3423	3566	3710	3853	3996	4140	4283
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32		7292	7435	7578	7722	7865	8008	8151	8295	8438	8581
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36		3018	3161	3304	3447	3590	3733	3876	4019	4162	4305
37		4448	4591	4734	4877	5020	5163	5306	5449	5592	5735
38		5878	6021	6164	6307	6449	6592	6735	6878	7021	7164
39		7307	7450	7593	7736	7879	8021	8164	8307	8450	8593
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42	1592	1735	1878	2020	2163	2306	2449	2591	2734	2877	2 29
43	3020	3162	3305	3448	3590	3733	3876	4018	4161	4304	3 43
44	4446	4589	4732	4874	5017	5160	5302	5445	5588	5730	4 57
3045	5873	6016	6158	6301	6443	6586	6729	6871	7014	7156	5 72
46	7299	7442	7584	7727	7869	8012	8154	8297	8439	8582	6 86
47	8725	8867	9010	9152	9295	9437	9580	9722	9865	0007	7 100
48	0150	0292	0435	0577	0720	0862	1004	1147	1289	1432	8 114
49	1574	1717	1859	2002	2144	2286	2429	2571	2714	2856	9 129
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56	1533	1676	1818	1960	2102	2244	2386	2528	2670	2812	1 14
57	2954	3096	3239	3381	3523	3665	3807	3949	4091	4233	2 29
58	4375	4517	4659	4801	4943	5085	5227	5369	5511	5653	3 43
59	5795	5937	6079	6221	6363	6505	6647	6789	6930	7072	4 57
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61	8633	8775	8917	9059	9201	9343	9484	9626	9768	9910	3 43
62	0052	0194	0336	0477	0619	0761	0903	1045	1186	1328	4 57
63	1470	1612	1754	1895	2037	2179	2321	2462	2604	2746	5 71
64	2888	3029	3171	3313	3455	3596	3738	3880	4021	4163	6 85
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66	5722	5863	6005	6146	6288	6430	6571	6713	6855	6996	8 113
67	7138	7279	7421	7563	7704	7846	7987	8129	8270	8412	9 127
68	8554	8695	8837	8978	9120	9261	9403	9544	9686	9827	
69	487 9969	0110	0252	0393	0535	0676	0818	0959	1101	1242	
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72	4212	4353	4495	4636	4778	4919	5060	5202	5343	5484	
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77	1275	1416	1557	1698	1839	1981	2122	2263	2404	2545	
78	2686	2827	2968	3109	3251	3392	3533	3674	3815	3956	
79	4097	4238	4379	4520	4661	4802	4943	5084	5225	5366	
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81	6917	7058	7199	7340	7481	7622	7763	7904	8045	8185	
82	8326	8467	8608	8749	8890	9031	9172	9313	9454	9594	
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84	1144	1285	1425	1566	1707	1848	1989	2129	2270	2411	
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86	3959	4100	4241	4381	4522	4663	4804	4944	5085	5226	
87	5366	5507	5648	5788	5929	6070	6210	6351	6492	6632	
88	6773	6914	7054	7195	7335	7476	7617	7757	7898	8038	
89	8179	8320	8460	8601	8741	8882	9023	9163	9304	9444	
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91	0990	1131	1271	1412	1552	1693	1833	1973	2114	2254	
92	2395	2535	2676	2816	2957	3097	3238	3378	3518	3659	
93	3799	3940	4080	4220	4361	4501	4642	4782	4922	5063	
94	5203	5343	5484	5624	5765	5905	6045	6186	6326	6466	
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96	8010	8150	8290	8430	8571	8711	8851	8991	9132	9272	
97	491 9412	9552	9693	9833	9973	0113	0253	0394	0534	0674	
98	0314	0454	0594	0735	0875	1015	1155	1295	1435	1576	
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02		6418	6558	6698	6838	6978	7118	7258	7398	7538	7678
03		7818	7958	8098	8238	8378	8517	8657	8797	8937	9077
04	492	9217	9357	9497	9637	9777	9917	0057	0196	0336	0476
3105		0616	0756	0896	1036	1175	1315	1455	1595	1735	1875
06		2015	2154	2294	2434	2574	2714	2853	2993	3133	3273
07		3413	3552	3692	3832	3972	4111	4251	4391	4531	4670
08		4810	4950	5090	5229	5369	5509	5648	5788	5928	6068
09		6207	6347	6487	6626	6766	6906	7045	7185	7325	7464
3110		7604	7744	7883	8023	8162	8302	8442	8581	8721	8861
11	493	9000	9140	9279	9419	9558	9698	9838	9977	0117	0256
12		0396	0535	0675	0815	0954	1094	1233	1373	1512	1652
13		1791	1931	2070	2210	2349	2489	2628	2768	2907	3047
14		3186	3326	3465	3604	3744	3883	4023	4162	4302	4441
3115		4581	4720	4859	4999	5138	5278	5417	5556	5696	5835
16		5974	6114	6253	6393	6532	6671	6811	6950	7089	7229
17		7368	7507	7647	7786	7925	8065	8204	8343	8483	8622
18		8761	8900	9040	9179	9318	9457	9597	9736	9876	0015
19	494	0154	0293	0432	0571	0711	0850	0989	1128	1268	1407
3120		1546	1685	1824	1964	2103	2242	2381	2520	2659	2799
21		2938	3077	3216	3355	3494	3633	3773	3912	4051	4190
22		4329	4468	4607	4746	4885	5024	5164	5303	5442	5581
23		5720	5859	5998	6137	6276	6415	6554	6693	6832	6971
24		7110	7249	7388	7527	7666	7805	7944	8083	8222	8361
3125		8500	8639	8778	8917	9056	9195	9334	9473	9612	9751
26	495	9890	0029	0168	0307	0445	0584	0723	0862	1001	1140
27		1279	1418	1557	1695	1834	1973	2112	2251	2390	2529
28		2667	2806	2945	3084	3223	3362	3500	3639	3778	3917
29		4056	4194	4333	4472	4611	4750	4888	5027	5166	5305
3130		5443	5582	5721	5860	5998	6137	6276	6415	6553	6692
31		6831	6969	7108	7247	7385	7524	7663	7802	7940	8079
32		8218	8356	8495	8634	8772	8911	9049	9188	9327	9465
33	496	9604	9743	9881	0020	0158	0297	0436	0574	0713	0851
34		0990	1128	1267	1406	1544	1683	1821	1960	2098	2237
3135		2375	2514	2653	2791	2930	3068	3207	3345	3484	3622
36		3761	3899	4038	4176	4314	4453	4591	4730	4868	5007
37		5145	5284	5422	5560	5699	5837	5976	6114	6253	6391
38		6529	6668	6806	6945	7083	7221	7360	7498	7636	7775
39		7913	8052	8190	8328	8467	8605	8743	8882	9020	9158
3140		9296	9435	9573	9711	9850	9988	0126	0265	0403	0541
41	497	0679	0818	0956	1094	1232	1371	1509	1647	1785	1924
42		2062	2200	2338	2476	2615	2753	2891	3029	3167	3306
43		3444	3582	3720	3858	3996	4135	4273	4411	4549	4687
44		4825	4964	5102	5240	5378	5516	5654	5792	5930	6068
3145		6206	6345	6483	6621	6759	6897	7035	7173	7311	7449
46		7587	7725	7863	8001	8139	8277	8415	8553	8691	8829
47	498	8967	9105	9243	9381	9519	9657	9795	9933	0071	0209
48		0347	0485	0623	0761	0899	1037	1175	1313	1451	1589
49		1727	1865	2002	2140	2278	2416	2554	2692	2830	2968
3150		3106	3243	3381	3519	3657	3795	3933	4071	4208	4346
51		4484	4622	4760	4897	5035	5173	5311	5449	5587	5724
52		5862	6000	6138	6275	6413	6551	6689	6826	6964	7102
53		7240	7377	7515	7653	7791	7928	8066	8204	8341	8479
54		8617	8755	8892	9030	9168	9305	9443	9581	9718	9856
3155	499	9994	0131	0269	0407	0544	0682	0819	0957	1095	1232
56		1370	1508	1645	1783	1920	2058	2196	2333	2471	2608
57		2746	2883	3021	3158	3296	3434	3571	3709	3846	3984
58		4121	4259	4396	4534	4671	4809	4946	5084	5221	5359
59		5496	5634	5771	5909	6046	6184	6321	6459	6596	6733
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63		0992	1129	1267	1404	1541	1678	1816	1953	2090	2227
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66		5109	5246	5383	5521	5658	5795	5932	6069	6206	6344
67		6481	6618	6755	6892	7029	7166	7303	7440	7578	7715
68		7852	7989	8126	8263	8400	8537	8674	8811	8948	9085
69	501	9222	9359	9496	9634	9771	9908	0045	0182	0319	0456
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71		1962	2099	2236	2373	2510	2647	2784	2921	3058	3195
72		3332	3469	3606	3743	3879	4016	4153	4290	4427	4564
73		4701	4838	4974	5111	5248	5385	5522	5659	5796	5932
74		6069	6206	6343	6480	6617	6753	6890	7027	7164	7301
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76	502	8805	8942	9078	9215	9352	9489	9625	9762	9899	0035
77		0172	0309	0446	0582	0719	0856	0992	1129	1266	1402
78		1539	1676	1812	1949	2086	2222	2359	2495	2632	2769
79		2905	3042	3178	3315	3452	3588	3725	3861	3998	4135
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82		7002	7138	7275	7411	7548	7684	7821	7957	8093	8230
83		8365	8503	8639	8776	8912	9049	9185	9321	9458	9594
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87		3821	3957	4093	4229	4366	4502	4638	4774	4911	5047
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89		6545	6681	6818	6954	7090	7226	7362	7498	7635	7771
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92		0629	0765	0901	1037	1173	1309	1445	1581	1717	1853
93		1989	2125	2261	2397	2533	2669	2805	2941	3077	3213
94		3349	3485	3621	3757	3893	4029	4165	4301	4437	4573
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96		6068	6204	6339	6475	6611	6747	6883	7019	7155	7291
97		7426	7562	7698	7834	7970	8106	8241	8377	8513	8649
98	505	8785	8920	9056	9192	9328	9464	9599	9735	9871	0007
99		0142	0278	0414	0550	0685	0821	0957	1093	1228	1364
3200		1500	1635	1771	1907	2043	2178	2314	2450	2585	2721
01		2857	2992	3128	3264	3399	3535	3671	3806	3942	4078
02		4213	4349	4485	4620	4756	4891	5027	5163	5298	5434
03		5569	5705	5841	5976	6112	6247	6383	6518	6654	6790
04		6925	7061	7196	7332	7467	7603	7738	7874	8009	8145
3205		8280	8416	8551	8687	8822	8958	9093	9229	9364	9500
06	506	9635	9771	9906	0042	0177	0312	0448	0583	0719	0854
07		0990	1125	1260	1396	1531	1667	1802	1937	2073	2208
08		2344	2479	2614	2750	2885	3020	3156	3291	3426	3562
09		3697	3833	3968	4103	4238	4374	4509	4644	4779	4915
3210		5050	5185	5321	5456	5591	5727	5862	5997	6133	6268
11		6403	6538	6674	6809	6944	7079	7214	7350	7485	7620
12		7755	7891	8026	8161	8296	8431	8567	8702	8837	8972
13	507	9107	9242	9378	9513	9648	9783	9918	0053	0188	0324
14		0459	0594	0729	0864	0999	1134	1269	1405	1540	1675
3215		1810	1945	2080	2215	2350	2485	2620	2755	2890	3025
16		3160	3295	3430	3565	3701	3836	3971	4106	4241	4376
17		4511	4646	4781	4916	5051	5186	5321	5456	5591	5725
18		5860	5995	6130	6265	6400	6535	6670	6805	6940	7075
19		7210	7345	7480	7614	7749	7884	8019	8154	8289	8424
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21	508 9907	0042	0177	0312	0447	0581	0716	0851	0986	1121	1 14
22	1255	1390	1525	1660	1794	1929	2064	2199	2334	2468	2 27
23	2603	2738	2873	3007	3142	3277	3411	3546	3681	3816	3 41
24	3950	4085	4220	4354	4489	4624	4758	4893	5028	5163	4 54
3225	5297	5432	5567	5701	5836	5970	6105	6240	6374	6509	5 68
26	6644	6778	6913	7047	7182	7317	7451	7586	7720	7855	6 81
27	7990	8124	8259	8393	8528	8663	8797	8932	9066	9201	7 95
28	509 9335	9470	9604	9739	9873	0008	0142	0277	0411	0546	8 108
29	0680	0815	0949	1084	1218	1353	1487	1622	1756	1891	9 122
3230	2085	2160	2294	2429	2563	2697	2832	2966	3101	3235	
31	3370	3504	3638	3773	3907	4042	4176	4310	4445	4579	
32	4714	4848	4982	5117	5251	5385	5520	5654	5788	5923	
33	6037	6191	6325	6460	6594	6729	6863	6997	7132	7266	
34	7400	7534	7669	7803	7937	8072	8206	8340	8474	8609	
3235	8743	8877	9011	9145	9280	9414	9548	9682	9817	9951	
36	510 0085	0219	0354	0488	0622	0756	0890	1024	1159	1293	
37	1427	1561	1695	1829	1964	2098	2232	2366	2500	2634	
38	2768	2903	3037	3171	3305	3439	3573	3707	3841	3975	
39	4109	4244	4378	4512	4646	4780	4914	5048	5182	5316	134
3240	5450	5584	5718	5852	5986	6120	6254	6388	6522	6656	1 13
41	6790	6924	7058	7192	7326	7460	7594	7728	7862	7996	2 27
42	8130	8264	8398	8532	8666	8800	8934	9068	9202	9336	3 40
43	511 9469	9603	9737	9871	0005	0139	0273	0407	0541	0675	4 54
44	0808	0942	1076	1210	1344	1478	1612	1746	1879	2013	5 67
3245	2147	2281	2415	2548	2682	2816	2950	3084	3218	3351	6 80
46	3486	3619	3753	3887	4020	4154	4288	4422	4555	4689	7 94
47	4823	4957	5090	5224	5358	5492	5625	5759	5893	6026	8 107
48	6160	6294	6428	6561	6695	6829	6962	7096	7230	7363	9 121
49	7497	7631	7764	7898	8032	8165	8299	8433	8566	8700	
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51	0170	0303	0437	0570	0704	0838	0971	1105	1238	1372	
52	1505	1639	1772	1906	2040	2173	2307	2440	2574	2707	
53	2841	2974	3108	3241	3375	3508	3642	3775	3909	4042	
54	4175	4309	4442	4576	4709	4843	4976	5110	5243	5377	
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56	6844	6977	7111	7244	7377	7511	7644	7778	7911	8044	
57	8178	8311	8444	8578	8711	8844	8978	9111	9244	9377	
58	513 9611	9644	9777	9911	0044	0177	0311	0444	0577	0710	
59	0844	0977	1110	1243	1377	1510	1643	1776	1910	2043	
3260	2176	2309	2442	2576	2709	2842	2975	3108	3242	3375	
61	3608	3641	3774	3908	4041	4174	4307	4440	4573	4706	
62	4440	4573	5106	5239	5372	5505	5638	5771	5905	6038	
63	6171	6304	6437	6570	6703	6836	6969	7102	7235	7368	
64	7502	7635	7768	7901	8034	8167	8300	8433	8566	8699	
3265	514 8832	8965	9098	9231	9364	9497	9630	9763	9896	0029	
66	0162	0295	0428	0561	0694	0827	0960	1093	1225	1358	
67	1491	1624	1757	1890	2023	2156	2289	2422	2555	2688	
68	2820	2953	3086	3219	3352	3485	3618	3751	3883	4016	
69	4149	4282	4415	4548	4681	4813	4946	5079	5212	5345	
3270	5478	5610	5743	5876	6009	6142	6274	6407	6540	6673	
71	6305	6438	7071	7204	7336	7469	7602	7735	7867	8000	
72	8133	8266	8398	8531	8664	8797	8929	9062	9195	9327	
73	515 9460	9593	9725	9858	9991	0123	0256	0389	0521	0654	
74	0787	0919	1052	1185	1317	1450	1583	1715	1848	1980	
3275	2113	2246	2378	2511	2643	2776	2909	3041	3174	3306	
76	3439	3571	3704	3837	3969	4102	4234	4367	4499	4632	
77	4764	4897	5029	5162	5294	5427	5560	5692	5825	5957	
78	6089	6222	6354	6487	6619	6752	6884	7017	7149	7282	
79	7414	7547	7679	7811	7944	8076	8209	8341	8474	8606	
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81	516	0062	0195	0327	0459	0592	0724	0856	0989	1121	1253
82		1386	1518	1650	1783	1915	2047	2180	2312	2444	2577
83		2709	2841	2973	3105	3238	3370	3502	3635	3767	3899
84		4031	4164	4296	4428	4560	4693	4825	4957	5089	5222
3285		5354	5486	5618	5750	5883	6015	6147	6279	6411	6543
86		6676	6808	6940	7072	7204	7336	7469	7601	7733	7865
87		7997	8129	8261	8393	8525	8658	8790	8922	9054	9186
88	517	9318	9450	9582	9714	9846	9978	0111	0243	0375	0507
89		0639	0771	0903	1035	1167	1299	1431	1563	1695	1827
3290		1959	2091	2223	2355	2487	2619	2751	2883	3015	3147
91		3279	3411	3543	3675	3807	3939	4071	4202	4334	4466
92		4588	4720	4852	4984	5116	5248	5380	5512	5644	5776
93		5917	6049	6181	6313	6445	6577	6709	6840	6972	7104
94		7236	7368	7500	7631	7763	7895	8027	8159	8291	8422
3295		8554	8686	8818	8950	9081	9213	9345	9477	9608	9740
96	518	9872	0004	0136	0267	0399	0531	0663	0794	0926	1058
97		1189	1321	1453	1585	1716	1848	1980	2111	2243	2375
98		2507	2638	2770	2902	3033	3165	3297	3428	3560	3692
99		3823	3955	4086	4218	4350	4481	4613	4745	4876	5008
3300		5139	5271	5403	5534	5666	5797	5929	6061	6192	6324
01		6455	6587	6718	6850	6981	7113	7245	7376	7508	7639
02		7771	7902	8034	8165	8297	8428	8560	8691	8823	8954
03	519	9086	9217	9349	9480	9612	9743	9875	0006	0137	0269
04		0400	0532	0663	0795	0926	1058	1189	1320	1452	1583
3305		1715	1846	1977	2109	2240	2372	2503	2634	2765	2897
06		3028	3160	3291	3423	3554	3685	3817	3948	4079	4211
07		4342	4473	4605	4736	4867	4999	5130	5261	5392	5524
08		5655	5786	5918	6049	6180	6311	6443	6574	6705	6836
09		6968	7099	7230	7361	7493	7624	7755	7886	8018	8149
3310		8280	8411	8542	8674	8805	8936	9067	9198	9329	9461
11	520	9592	9723	9854	9985	0116	0248	0379	0510	0641	0772
12		0903	1034	1166	1297	1428	1559	1690	1821	1952	2083
13		2214	2345	2477	2608	2739	2870	3001	3132	3263	3394
14		3525	3656	3787	3918	4049	4180	4311	4442	4573	4704
3315		4835	4966	5097	5228	5359	5490	5621	5752	5883	6014
16		6145	6276	6407	6538	6669	6800	6931	7062	7193	7324
17		7455	7586	7717	7847	7978	8109	8240	8371	8502	8633
18		8764	8895	9026	9156	9287	9418	9549	9680	9811	9942
19	521	0073	0203	0334	0465	0596	0727	0858	0988	1119	1250
3320		1381	1512	1642	1773	1904	2035	2166	2296	2427	2558
21		2689	2820	2950	3081	3212	3343	3473	3604	3735	3866
22		3996	4127	4258	4388	4519	4650	4781	4911	5042	5173
23		5303	5434	5565	5695	5826	5957	6088	6218	6349	6479
24		6610	6741	6871	7002	7133	7263	7394	7525	7655	7786
3325		7916	8047	8178	8308	8439	8570	8700	8831	8961	9092
26	522	9222	9353	9484	9614	9745	9875	0006	0136	0267	0397
27		0528	0659	0789	0920	1050	1181	1311	1442	1572	1703
28		1833	1964	2094	2225	2355	2486	2616	2747	2877	3007
29		3138	3268	3399	3529	3660	3790	3921	4051	4181	4312
3330		4442	4573	4703	4834	4964	5094	5225	5355	5486	5616
31		5746	5877	6007	6137	6268	6398	6529	6659	6789	6920
32		7050	7180	7311	7441	7571	7702	7832	7962	8093	8223
33		8351	8483	8614	8744	8874	9005	9135	9265	9395	9526
34	523	9656	9786	9916	0047	0177	0307	0437	0568	0698	0828
3335		0958	1089	1219	1349	1479	1609	1740	1870	2000	2130
36		2250	2381	2511	2641	2771	2911	3041	3172	3302	3432
37		3562	3692	3822	3952	4083	4213	4343	4473	4603	4733
38		4863	4993	5124	5254	5384	5514	5644	5774	5904	6034
39		6164	6294	6424	6554	6684	6814	6945	7075	7205	7335
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41	8765	8895	9025	9155	9285	9415	9545	9675	9805	9935	1 13
42	524 0064	0194	0324	0454	0584	0714	0844	0974	1104	1234	2 26
43	1364	1494	1624	1753	1883	2013	2143	2273	2403	2533	3 39
44	2663	2793	2922	3052	3182	3312	3442	3572	3702	3831	4 52
3345	3961	4091	4221	4351	4481	4610	4740	4870	5000	5130	5 65
46	525 5259	5389	5519	5649	5779	5908	6038	6168	6298	6427	6 78
47	6557	6687	6817	6946	7076	7206	7336	7465	7595	7725	7 91
48	7854	7984	8114	8244	8373	8503	8633	8762	8892	9022	8 104
49	9151	9281	9411	9540	9670	9800	9929	0059	0189	0318	9 117
3350	0448	0578	0707	0837	0967	1096	1226	1355	1485	1615	
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52	3040	3170	3299	3429	3558	3688	3817	3947	4076	4206	
53	4336	4465	4595	4724	4854	4983	5113	5242	5372	5501	
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57	526 9513	9643	9772	9902	0031	0160	0290	0419	0548	0678	
58	0807	0936	1066	1195	1324	1454	1583	1712	1841	1971	
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66	1141	1270	1399	1528	1657	1786	1915	2044	2173	2302	1 13
67	2431	2560	2689	2818	2947	3076	3205	3334	3463	3592	2 26
68	3721	3850	3979	4108	4237	4366	4494	4623	4752	4881	3 39
69	5010	5139	5268	5397	5526	5655	5783	5912	6041	6170	4 52
3370	6299	6428	6557	6686	6814	6943	7072	7201	7330	7459	5 65
71	7588	7716	7845	7974	8103	8232	8360	8489	8618	8747	6 77
72	528 8876	9004	9133	9262	9391	9520	9648	9777	9906	0035	7 90
73	0163	0292	0421	0550	0678	0807	0936	1065	1193	1322	8 103
74	1451	1579	1708	1837	1966	2094	2223	2352	2480	2609	9 116
3375	2738	2866	2995	3124	3252	3381	3510	3638	3767	3896	
76	4024	4153	4282	4410	4539	4668	4796	4925	5053	5182	
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78	6596	6725	6854	6982	7111	7239	7368	7496	7625	7753	
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86	6870	6998	7126	7254	7383	7511	7639	7767	7896	8024	
87	8152	8280	8408	8537	8665	8793	8921	9049	9178	9306	
88	530 9434	9562	9690	9819	9947	0075	0203	0331	0459	0588	
89	0716	0844	0972	1100	1228	1356	1485	1613	1741	1869	
3390	1997	2125	2253	2381	2509	2637	2766	2894	3022	3150	
91	3278	3406	3534	3662	3790	3918	4046	4174	4302	4430	
92	4558	4686	4814	4943	5071	5199	5327	5455	5583	5711	
93	5839	5967	6095	6223	6351	6479	6607	6734	6862	6990	
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96	531 9677	9805	9933	0060	0188	0316	0444	0572	0700	0828	
97	0955	1083	1211	1339	1467	1595	1722	1850	1978	2106	
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02	7343	7471	7598	7725	7854	7981	8109	8237	8364	8492	
03	8619	8747	8875	9002	9130	9258	9385	9513	9640	9768	
04	532 9896	0023	0151	0278	0406	0533	0661	0789	0916	1044	
3405	1171	1299	1426	1554	1681	1809	1936	2064	2191	2319	
06	2446	2574	2701	2829	2956	3084	3211	3339	3466	3594	
07	3721	3849	3976	4104	4231	4359	4486	4614	4741	4868	
08	4996	5123	5251	5378	5506	5633	5760	5888	6015	6143	
09	6270	6397	6525	6652	6780	6907	7034	7162	7289	7416	
3410	7544	7671	7799	7926	8053	8181	8308	8435	8563	8690	
11	8817	8945	9072	9199	9326	9454	9581	9708	9836	9963	
12	533 0090	0218	0345	0472	0599	0727	0854	0981	1108	1236	
13	1363	1490	1617	1745	1872	1999	2126	2254	2381	2508	
14	2635	2762	2890	3017	3144	3271	3398	3526	3653	3780	
3415	3907	4034	4161	4289	4416	4543	4670	4797	4924	5051	
16	5179	5306	5433	5560	5687	5814	5941	6068	6195	6323	
17	6450	6577	6704	6831	6958	7085	7212	7339	7466	7594	
18	7721	7848	7975	8102	8229	8356	8483	8610	8737	8864	
19	534 8991	9118	9245	9372	9499	9626	9753	9880	0007	0134	127
3420	0261	0388	0515	0642	0769	0896	1023	1150	1277	1404	1
21	1531	1658	1785	1912	2039	2165	2292	2419	2546	2673	2
22	2800	2927	3054	3181	3308	3435	3561	3688	3815	3942	3
23	4069	4196	4323	4450	4576	4703	4830	4957	5084	5211	4
24	5338	5464	5591	5718	5845	5972	6099	6225	6352	6479	5
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26	7874	8000	8127	8254	8381	8507	8634	8761	8888	9014	7
27	535 9141	9268	9394	9521	9648	9775	9901	0028	0155	0281	8
28	0408	0535	0662	0789	0915	1042	1168	1295	1422	1548	9
29	1675	1802	1928	2055	2181	2308	2435	2561	2688	2815	114
3430	2941	3068	3194	3321	3448	3574	3701	3827	3954	4081	
31	4207	4334	4460	4587	4713	4840	4967	5093	5220	5346	
32	5473	5599	5726	5852	5979	6105	6232	6359	6485	6612	
33	6738	6865	6991	7118	7244	7371	7497	7623	7750	7876	
34	8003	8129	8256	8382	8509	8635	8762	8888	9015	9141	
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36	0532	0658	0784	0911	1037	1163	1290	1416	1543	1669	
37	1795	1922	2048	2174	2301	2427	2553	2680	2806	2932	
38	3059	3185	3311	3438	3564	3690	3817	3943	4069	4195	
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43	537 9370	9496	9622	9749	9875	0001	0127	0253	0379	0505	
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47	4413	4539	4665	4791	4917	5043	5169	5295	5421	5547	
48	5673	5799	5924	6050	6176	6302	6428	6554	6680	6806	
49	6932	7058	7184	7310	7436	7561	7687	7813	7939	8065	126
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53	1966	2092	2217	2343	2469	2595	2720	2846	2972	3098	4
54	3223	3349	3475	3601	3726	3852	3978	4103	4229	4355	5
3455	4481	4606	4732	4858	4983	5109	5235	5360	5486	5612	6
56	5737	5863	5989	6114	6240	6366	6491	6617	6743	6868	7
57	6994	7119	7245	7371	7496	7622	7747	7873	7999	8124	8
58	8250	8375	8501	8627	8752	8878	9003	9129	9255	9380	9
59	539 9506	9631	9757	9882	0008	0133	0259	0384	0510	0635	113
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62	3271	3396	3522	3647	3772	3898	4023	4149	4274	4400	
63	4525	4650	4776	4901	5027	5152	5277	5403	5528	5653	
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65	8286	8411	8536	8661	8787	8912	9037	9163	9288	9413	
67	540 9538	9664	9789	9914	0039	0165	0290	0415	0540	0666	
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69	2043	2168	2293	2419	2544	2669	2794	2919	3044	3170	
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87	4519	4644	4768	4893	5018	5142	5267	5391	5516	5640	
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93	1986	2110	2235	2359	2483	2607	2732	2856	2980	3105	
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01	1921	2045	2169	2293	2417	2541	2665	2789	2913	3037	
02	3161	3285	3409	3533	3657	3781	3905	4029	4153	4277	
03	4401	4525	4649	4773	4897	5021	5145	5269	5393	5517	
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06	8119	8243	8367	8491	8615	8738	8862	8986	9110	9234	
07	545 9353	9481	9605	9729	9853	9977	0101	0224	0348	0472	
08	0595	0720	0843	0967	1091	1215	1339	1462	1586	1710	
09	1834	1957	2081	2205	2329	2452	2576	2700	2824	2947	
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11	4303	4427	4550	4674	4803	4927	5050	5174	5298	5421	
12	5545	5669	5792	5916	6040	6163	6287	6411	6534	6658	
13	6781	6905	7029	7152	7276	7400	7523	7647	7770	7894	
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23	547	9126	9250	9373	9496	9620	9743	9866	9989	0113	0236
24		0359	0482	0605	0729	0852	0975	1098	1222	1345	1468
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29		6517	6640	6763	6886	7009	7132	7255	7378	7501	7624
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32		0207	0330	0453	0576	0699	0822	0945	1068	1191	1313
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37		6351	6473	6596	6719	6842	6964	7087	7210	7333	7456
38		7578	7701	7824	7947	8069	8192	8315	8437	8560	8683
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42		2486	2608	2731	2853	2976	3099	3221	3344	3466	3589
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52		4730	4852	4974	5096	5219	5341	5463	5585	5708	5830
53		5952	6074	6197	6319	6441	6563	6685	6808	6930	7052
54		7174	7296	7419	7541	7663	7785	7907	8030	8152	8274
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56	551	9618	9740	9862	9984	0106	0228	0350	0472	0594	0717
57		0839	0961	1083	1205	1327	1449	1571	1693	1815	1937
58		2059	2181	2304	2426	2548	2670	2792	2914	3036	3158
59		3280	3402	3524	3646	3768	3890	4012	4134	4256	4378
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62		6939	7061	7183	7305	7427	7549	7671	7793	7914	8036
63		8158	8280	8402	8524	8646	8768	8890	9011	9133	9255
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66		1813	1935	2057	2179	2301	2422	2544	2666	2788	2909
67		3031	3153	3275	3396	3518	3640	3762	3883	4005	4127
68		4248	4370	4492	4614	4735	4857	4979	5100	5222	5344
69		5465	5587	5709	5831	5952	6074	6196	6317	6439	6561
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71		7899	8020	8142	8263	8385	8507	8628	8750	8871	8993
72	553	9115	9236	9358	9479	9601	9722	9844	9965	0087	0209
73		0330	0452	0573	0695	0816	0938	1059	1181	1302	1424
74		1545	1667	1789	1910	2032	2153	2275	2396	2517	2639
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78		6403	6525	6646	6767	6889	7010	7132	7253	7374	7496
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84	3680	3801	3922	4044	4165	4286	4407	4528	4649	4770	
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86	6103	6224	6345	6466	6587	6708	6829	6951	7072	7193	
87	7314	7435	7556	7677	7798	7919	8040	8161	8282	8403	
88	8524	8645	8766	8887	9008	9130	9251	9372	9493	9614	
89	555 9735	9856	9977	0098	0219	0340	0461	0582	0703	0824	
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91	2154	2275	2396	2517	2638	2759	2880	3001	3121	3242	
92	3363	3484	3605	3726	3847	3968	4089	4210	4330	4451	
93	4572	4693	4814	4935	5056	5176	5297	5418	5539	5660	
94	5781	5902	6022	6143	6264	6385	6506	6627	6747	6868	
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96	8197	8318	8438	8559	8680	8801	8921	9042	9163	9284	
97	556 9404	9525	9646	9767	9887	0008	0129	0249	0370	0491	
98	0612	0732	0853	0974	1094	1215	1336	1456	1577	1698	
99	1818	1939	2060	2180	2301	2422	2542	2663	2784	2904	
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03	6643	6763	6884	7004	7125	7245	7366	7486	7607	7727	
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06	0257	0378	0498	0619	0739	0859	0980	1100	1221	1341	
07	1461	1582	1702	1823	1943	2063	2184	2304	2425	2545	
08	2665	2786	2906	3026	3147	3267	3387	3508	3628	3748	
09	3869	3989	4109	4230	4350	4470	4591	4711	4831	4952	
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13	8680	8800	8920	9040	9160	9281	9401	9521	9641	9761	
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17	3485	3605	3725	3845	3965	4085	4205	4325	4446	4566	
18	4686	4806	4926	5046	5166	5286	5406	5526	5646	5766	
19	5886	6006	6126	6246	6366	6486	6606	6726	6846	6966	
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22	559 9484	9604	9724	9844	9964	0084	0204	0324	0444	0563	
23	0683	0803	0923	1043	1163	1283	1403	1522	1642	1762	
24	1882	2002	2122	2241	2361	2481	2601	2721	2840	2960	
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26	4278	4398	4518	4637	4757	4877	4997	5116	5236	5356	
27	5476	5595	5715	5835	5954	6074	6194	6314	6433	6553	
28	6673	6792	6912	7032	7152	7271	7391	7511	7630	7750	
29	7870	7989	8109	8229	8348	8468	8588	8707	8827	8947	
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32	1458	1578	1698	1817	1937	2056	2176	2295	2415	2534	
33	2654	2774	2893	3013	3132	3252	3371	3491	3610	3730	
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36	6239	6358	6478	6597	6716	6836	6955	7075	7194	7314	
37	7433	7552	7672	7791	7911	8030	8149	8269	8388	8508	
38	8627	8746	8866	8985	9104	9224	9343	9463	9582	9701	
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42	3399	3519	3638	3757	3876	3996	4115	4234	4353	4472	
43	4592	4711	4830	4949	5069	5188	5307	5426	5545	5665	
44	5784	5903	6022	6141	6260	6380	6499	6618	6737	6856	
3645	6975	7094	7214	7333	7452	7571	7690	7809	7928	8048	
46	8167	8286	8405	8524	8643	8762	8881	9000	9119	9239	
47	562 9358	9477	9596	9715	9834	9953	0072	0191	0310	0429	
48	0548	0667	0786	0905	1024	1144	1263	1382	1501	1620	
49	1739	1858	1977	2096	2215	2334	2453	2572	2691	2810	119
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51	4118	4237	4356	4475	4594	4713	4832	4951	5070	5189	2 24
52	5308	5427	5546	5664	5783	5902	6021	6140	6259	6378	3 36
53	6497	6616	6734	6853	6972	7091	7210	7329	7448	7567	4 48
54	7685	7804	7923	8042	8161	8280	8399	8517	8636	8755	5 60
3655	563 8874	8993	9111	9230	9349	9468	9587	9705	9824	9943	6 71
56	0062	0181	0299	0418	0537	0656	0775	0893	1012	1131	7 83
57	1260	1368	1487	1606	1725	1843	1962	2081	2200	2318	8 95
58	2437	2556	2674	2793	2912	3031	3149	3268	3387	3505	9 107
59	3624	3743	3861	3980	4099	4218	4336	4455	4574	4692	
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62	7183	7302	7421	7539	7658	7776	7895	8013	8132	8251	
63	8369	8488	8606	8725	8843	8962	9081	9199	9318	9436	
64	564 9585	9703	9822	9940	0059	0177	0296	0414	0533	0651	
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66	1925	2043	2162	2280	2398	2517	2635	2754	2872	2991	
67	3109	3228	3346	3464	3583	3701	3820	3938	4056	4175	
68	4293	4412	4530	4648	4767	4885	5004	5122	5240	5359	
69	5477	5595	5714	5832	5951	6069	6187	6306	6424	6542	
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72	565 9027	9145	9263	9382	9500	9618	9736	9855	9973	0091	
73	0209	0328	0446	0564	0682	0800	0919	1037	1155	1273	
74	1392	1510	1628	1746	1864	1983	2101	2219	2337	2455	
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77	4936	5054	5173	5291	5409	5527	5645	5763	5881	5999	
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79	7293	7416	7534	7652	7770	7888	8006	8124	8242	8360	
3680	8478	8596	8714	8832	8950	9068	9186	9304	9422	9540	118
81	566 9658	9776	9894	0012	0130	0248	0366	0484	0602	0720	1 12
82	0838	0956	1074	1192	1310	1428	1546	1663	1781	1899	2 24
83	2017	2135	2253	2371	2489	2607	2725	2843	2960	3078	3 36
84	3196	3314	3432	3550	3668	3786	3903	4021	4139	4257	4 47
3685	4375	4493	4611	4728	4846	4964	5082	5200	5318	5435	5 59
86	5553	5671	5789	5907	6025	6142	6260	6378	6496	6614	6 71
87	6731	6849	6967	7085	7203	7320	7438	7556	7674	7791	7 83
88	7909	8027	8145	8262	8380	8498	8616	8733	8851	8969	8 94
89	567 9087	9204	9322	9440	9557	9675	9793	9911	0028	0146	9 106
3690	0264	0381	0499	0617	0734	0852	0970	1087	1205	1323	
91	1440	1558	1676	1793	1911	2029	2146	2264	2382	2499	
92	2617	2735	2852	2970	3087	3205	3323	3440	3558	3675	
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94	4969	5086	5204	5322	5439	5557	5674	5792	5909	6027	
3695	6144	6262	6379	6497	6615	6732	6850	6967	7085	7202	
96	7320	7437	7555	7672	7790	7907	8025	8142	8260	8377	
97	8495	8612	8729	8847	8964	9082	9199	9317	9434	9552	
98	568 9669	9787	9904	0021	0139	0256	0374	0491	0608	0726	
99	0843	0961	1078	1196	1313	1430	1548	1665	1782	1900	
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01		3191	3308	3426	3543	3660	3778	3895	4012	4130	4247
02		4364	4481	4599	4716	4833	4951	5068	5185	5303	5420
03		5537	5654	5772	5889	6006	6123	6241	6358	6476	6593
04		6710	6827	6944	7062	7179	7296	7413	7530	7648	7765
3705		7882	7999	8117	8234	8351	8468	8585	8703	8820	8937
05	569	9054	9171	9289	9406	9523	9640	9757	9874	9992	0109
07		0226	0343	0460	0577	0694	0812	0929	1046	1163	1280
08		1377	1514	1631	1749	1866	1983	2100	2217	2334	2451
09		2568	2685	2803	2920	3037	3154	3271	3388	3505	3622
3710		3739	3856	3973	4090	4207	4324	4441	4558	4675	4793
11		4910	5027	5144	5261	5378	5495	5612	5729	5846	5963
12		6080	6197	6314	6431	6548	6665	6782	6899	7016	7133
13		7249	7366	7483	7600	7717	7834	7951	8068	8185	8302
14		8419	8536	8653	8770	8887	9004	9121	9237	9354	9471
3715		9588	9705	9822	9939	0056	0173	0290	0406	0523	0640
16		0757	0874	0991	1108	1225	1341	1458	1575	1692	1809
17		1926	2042	2159	2276	2393	2510	2627	2743	2860	2977
18		3094	3211	3327	3444	3561	3678	3795	3911	4028	4145
19		4262	4379	4495	4612	4729	4846	4962	5079	5196	5313
3720		5429	5546	5663	5780	5896	6013	6130	6247	6363	6480
21		6597	6713	6830	6947	7064	7180	7297	7414	7530	7647
22		7764	7880	7997	8114	8230	8347	8464	8580	8697	8814
23		8930	9047	9164	9280	9397	9514	9630	9747	9863	9980
24	571	0097	0213	0330	0447	0563	0680	0796	0913	1030	1146
3725		1263	1379	1496	1613	1729	1846	1962	2079	2195	2312
26		2429	2545	2662	2778	2895	3011	3128	3244	3361	3477
27		3594	3710	3827	3943	4060	4177	4293	4410	4526	4643
28		4759	4876	4992	5109	5225	5341	5458	5574	5691	5807
29		5924	6040	6157	6273	6390	6506	6623	6739	6855	6972
3730		7088	7205	7321	7438	7554	7670	7787	7903	8020	8136
31		8252	8369	8485	8602	8718	8834	8951	9067	9184	9300
32	572	9416	9533	9649	9765	9882	9998	0115	0231	0347	0464
33		0580	0696	0813	0929	1045	1162	1278	1394	1511	1627
34		1743	1859	1976	2092	2208	2325	2441	2557	2674	2790
3735		2906	3022	3139	3255	3371	3487	3604	3720	3836	3952
36		4069	4185	4301	4417	4534	4650	4766	4882	4999	5115
37		5231	5347	5463	5580	5696	5812	5928	6044	6161	6277
38		6393	6509	6625	6742	6858	6974	7090	7206	7322	7438
39		7555	7671	7787	7903	8019	8135	8252	8368	8484	8600
3740		8716	8832	8948	9064	9180	9297	9413	9529	9645	9761
41	573	9877	9993	0109	0225	0341	0457	0574	0690	0806	0922
42		1038	1154	1270	1386	1502	1618	1734	1850	1966	2082
43		2198	2314	2430	2546	2662	2778	2894	3010	3126	3242
44		3358	3474	3590	3706	3822	3938	4054	4170	4286	4402
3745		4518	4634	4750	4866	4982	5098	5214	5330	5446	5562
46		5678	5794	5910	6026	6141	6257	6373	6489	6605	6721
47		6837	6953	7069	7185	7301	7416	7532	7648	7764	7880
48		7996	8112	8228	8343	8459	8575	8691	8807	8923	9039
49	574	9154	9270	9386	9502	9618	9734	9849	9965	0081	0197
3750		0313	0428	0544	0660	0776	0892	1007	1123	1239	1355
51		1471	1586	1702	1818	1934	2050	2165	2281	2397	2513
52		2628	2744	2860	2976	3091	3207	3323	3438	3554	3670
53		3786	3901	4017	4133	4248	4364	4480	4596	4711	4827
54		4943	5058	5174	5290	5405	5521	5637	5752	5868	5984
3755		6099	6215	6331	6446	6562	6678	6793	6909	7025	7140
56		7256	7371	7487	7603	7718	7834	7950	8065	8181	8296
57		8412	8528	8643	8759	8874	8990	9105	9221	9337	9452
58	575	9568	9683	9799	9914	0030	0146	0261	0377	0492	0508
59		0723	0839	0954	1070	1185	1301	1416	1532	1647	1763
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61		3033	3149	3264	3380	3495	3611	3726	3842	3957	4072
62		4188	4303	4419	4534	4650	4765	4881	4996	5111	5227
63		5342	5458	5573	5688	5804	5919	6035	6150	6265	6381
64		6496	6612	6727	6842	6958	7073	7188	7304	7419	7534
3765		7650	7765	7881	7996	8111	8227	8342	8457	8573	8688
66		8803	8918	9034	9149	9264	9380	9495	9610	9726	9841
67	576	9956	0071	0187	0302	0417	0533	0648	0763	0878	0994
68		1109	1224	1339	1455	1570	1685	1800	1916	2031	2146
69		2261	2377	2492	2607	2722	2837	2953	3068	3183	3298
3770		3414	3529	3644	3759	3874	3989	4105	4220	4335	4450
71		4565	4680	4796	4911	5026	5141	5256	5371	5487	5602
72		5717	5832	5947	6062	6177	6292	6408	6523	6638	6753
73		6868	6983	7098	7213	7328	7444	7559	7674	7789	7904
74		8019	8134	8249	8364	8479	8594	8709	8824	8939	9055
3775		9170	9285	9400	9515	9630	9745	9860	9975	0090	0205
76	577	0320	0435	0550	0665	0780	0895	1010	1125	1240	1355
77		1476	1585	1700	1815	1930	2045	2160	2275	2390	2505
78		2620	2734	2849	2964	3079	3194	3309	3424	3539	3654
79		3769	3884	3999	4114	4229	4343	4458	4573	4688	4803
3780		4918	5033	5148	5263	5378	5492	5607	5722	5837	5952
81		6067	6182	6296	6411	6526	6641	6756	6871	6985	7100
82		7215	7330	7445	7560	7675	7789	7904	8019	8134	8249
83		8363	8478	8593	8708	8823	8937	9052	9167	9282	9397
84	578	9511	9626	9741	9856	9970	0085	0200	0315	0429	0544
3785		0659	0774	0888	1003	1118	1233	1347	1462	1577	1691
86		1806	1921	2036	2150	2265	2380	2494	2609	2724	2838
87		2953	3068	3182	3297	3412	3526	3641	3756	3870	3985
88		4100	4214	4329	4444	4558	4673	4788	4902	5017	5131
89		5246	5361	5475	5590	5705	5819	5934	6048	6163	6278
3790		6392	6507	6621	6736	6850	6965	7080	7194	7309	7423
91		7538	7652	7767	7882	7996	8111	8225	8340	8454	8569
92		8683	8798	8912	9027	9141	9256	9370	9485	9599	9714
93		9828	9943	0057	0172	0286	0401	0515	0630	0744	0859
94	579	0973	1088	1202	1317	1431	1546	1660	1774	1889	2003
3795		2118	2232	2347	2461	2575	2690	2804	2919	3033	3148
96		3262	3376	3491	3605	3720	3834	3948	4063	4177	4292
97		4406	4520	4635	4749	4863	4978	5092	5207	5321	5435
98		5550	5664	5778	5893	6007	6121	6236	6350	6464	6579
99		6693	6807	6922	7036	7150	7264	7379	7493	7607	7722
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01	580	8979	9093	9207	9321	9436	9550	9664	9778	9893	0007
02		0121	0235	0350	0464	0578	0692	0806	0921	1035	1149
03		1263	1377	1492	1606	1720	1834	1948	2063	2177	2291
04		2405	2519	2633	2748	2862	2976	3090	3204	3318	3432
3805		3547	3661	3775	3889	4003	4117	4231	4346	4460	4574
06		4688	4802	4916	5030	5144	5258	5372	5487	5601	5715
07		5829	5943	6057	6171	6285	6399	6513	6627	6741	6855
08		6969	7083	7197	7312	7426	7540	7654	7768	7882	7996
09		8110	8224	8338	8452	8566	8680	8794	8908	9022	9136
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11	581	0389	0503	0617	0731	0845	0959	1073	1187	1301	1415
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13		2668	2782	2896	3010	3124	3238	3351	3465	3579	3693
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22	2907	3020	3134	3248	3361	3475	3589	3702	3816	3929	4043
23	4043	4157	4270	4384	4497	4611	4725	4838	4952	5065	5179
24	5179	5292	5406	5520	5633	5747	5860	5974	6087	6201	6315
3825	6314	6428	6541	6655	6769	6882	6996	7109	7223	7336	7450
26	7450	7563	7677	7790	7904	8017	8131	8244	8358	8471	8585
27	8585	8698	8812	8925	9039	9152	9265	9379	9492	9606	9719
28	583	9719	9833	9946	0060	0173	0287	0400	0513	0627	0740
29	0854	0967	1081	1194	1307	1421	1534	1648	1761	1874	1988
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31	3122	3235	3348	3462	3575	3688	3802	3915	4028	4142	4255
32	4255	4368	4482	4595	4708	4822	4935	5048	5162	5275	5388
33	5388	5501	5615	5728	5841	5955	6068	6181	6295	6408	6521
34	6521	6634	6748	6861	6974	7087	7201	7314	7427	7540	7654
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36	8786	8899	9012	9126	9239	9352	9465	9578	9692	9805	9918
37	584	9918	0031	0144	0258	0371	0484	0597	0710	0823	0937
38	1050	1163	1276	1389	1502	1615	1729	1842	1955	2068	2181
39	2181	2294	2407	2520	2634	2747	2860	2973	3086	3199	3312
3840	3312	3425	3538	3652	3765	3878	3991	4104	4217	4330	4443
41	4443	4556	4669	4782	4895	5008	5121	5234	5348	5461	5574
42	5574	5687	5800	5913	6026	6139	6252	6365	6478	6591	6704
43	6704	6817	6930	7043	7156	7269	7382	7495	7608	7721	7834
44	7834	7947	8060	8173	8286	8399	8512	8625	8738	8851	8964
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46	585	0093	0206	0319	0432	0545	0657	0770	0883	0996	1109
47	1222	1335	1448	1561	1673	1786	1899	2012	2125	2238	2351
48	2351	2463	2576	2689	2802	2915	3028	3141	3254	3367	3480
49	3479	3592	3705	3818	3930	4043	4156	4269	4382	4495	4608
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51	5735	5848	5961	6073	6186	6299	6412	6525	6637	6750	6863
52	6863	6976	7088	7201	7314	7426	7539	7652	7765	7877	7990
53	7990	8103	8216	8328	8441	8554	8666	8779	8892	9004	9117
54	9117	9230	9342	9455	9568	9681	9793	9906	0019	0131	0244
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56	1370	1483	1596	1708	1821	1933	2046	2159	2271	2384	2497
57	2496	2609	2722	2834	2947	3059	3172	3285	3397	3510	3623
58	3622	3735	3847	3960	4072	4185	4298	4410	4523	4636	4749
59	4748	4860	4973	5085	5198	5310	5423	5535	5648	5761	5874
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61	6998	7110	7223	7335	7448	7560	7673	7785	7898	8010	8123
62	8123	8235	8348	8460	8572	8685	8797	8910	9022	9135	9248
63	587	9247	9360	9472	9584	9697	9809	9922	0034	0146	0259
64	0371	0484	0596	0708	0821	0933	1045	1158	1270	1383	1496
3865	1495	1607	1720	1832	1944	2057	2169	2281	2394	2506	2619
66	2618	2731	2843	2955	3068	3180	3292	3405	3517	3629	3742
67	3742	3854	3966	4079	4191	4303	4416	4528	4640	4752	4865
68	4865	4977	5089	5201	5314	5426	5538	5651	5763	5875	5988
69	5987	6100	6212	6324	6436	6549	6661	6773	6885	6997	7110
3870	7110	7222	7334	7446	7559	7671	7783	7895	8007	8120	8232
71	8232	8344	8456	8568	8680	8793	8905	9017	9129	9241	9354
72	9353	9465	9578	9690	9802	9914	0026	0139	0251	0363	0476
73	0475	0587	0699	0811	0923	1036	1148	1260	1372	1484	1597
74	1596	1708	1820	1932	2045	2157	2269	2381	2493	2605	2718
3875	2717	2829	2941	3053	3165	3277	3389	3502	3614	3726	3838
76	3838	3950	4062	4174	4286	4398	4510	4622	4734	4846	4958
77	4958	5070	5182	5294	5406	5518	5630	5742	5854	5966	6078
78	6078	6190	6302	6414	6526	6638	6750	6862	6974	7086	7198
79	7198	7310	7422	7534	7646	7758	7870	7981	8093	8205	8317
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81	589	9436	9548	9660	9772	9884	9996	0108	0220	0332	11
82		0555	0667	0779	0891	1003	1115	1227	1338	1450	22
83		1674	1786	1898	2009	2121	2233	2345	2457	2569	34
84		2792	2904	3016	3128	3239	3351	3463	3575	3687	45
3885		3910	4022	4134	4246	4357	4469	4581	4693	4804	56
86		5028	5140	5251	5363	5475	5587	5698	5810	5922	67
87		6145	6257	6369	6481	6592	6704	6816	6927	7039	78
88		7263	7374	7486	7598	7709	7821	7933	8044	8156	86
89		8379	8491	8603	8714	8826	8938	9049	9161	9273	94
3890	590	9496	9608	9719	9831	9943	0054	0166	0277	0389	0501
91		0612	0724	0836	0947	1059	1170	1282	1394	1505	1617
92		1728	1840	1951	2063	2175	2286	2398	2509	2621	2732
93		2844	2956	3067	3179	3290	3402	3513	3625	3736	3848
94		3959	4071	4183	4294	4406	4517	4629	4740	4852	4963
3895		5075	5186	5298	5409	5521	5632	5744	5855	5967	6078
96		6189	6301	6412	6524	6635	6747	6858	6970	7081	7193
97		7304	7415	7527	7638	7750	7861	7973	8084	8196	8307
98		8418	8530	8641	8753	8864	8975	9087	9198	9310	9421
99	591	9532	9644	9755	9866	9978	0089	0201	0312	0423	0535
3900		0646	0757	0869	0980	1091	1203	1314	1426	1537	1648
01		1760	1871	1982	2093	2205	2316	2427	2539	2650	2761
02		2873	2984	3095	3207	3318	3429	3540	3652	3763	3874
03		3986	4097	4208	4319	4431	4542	4653	4764	4876	4987
04		5098	5209	5321	5432	5543	5654	5765	5877	5988	0099
3905		6210	6322	6433	6544	6655	6766	6878	6989	7100	7211
06		7322	7434	7545	7656	7767	7878	7989	8101	8212	8323
07		8434	8545	8656	8768	8879	8990	9101	9212	9323	9434
08	592	9546	9657	9768	9879	9990	0101	0212	0323	0434	0546
09		0657	0768	0879	0990	1101	1212	1323	1434	1545	1656
3910		1768	1879	1990	2101	2212	2323	2434	2545	2656	2767
11		2878	2989	3100	3211	3322	3433	3544	3655	3766	3877
12		3988	4099	4210	4321	4433	4544	4655	4766	4877	4988
13		5098	5209	5320	5431	5542	5653	5764	5875	5986	6097
14		6208	6319	6430	6541	6652	6763	6874	6985	7096	7207
3915		7318	7429	7540	7650	7761	7872	7983	8094	8205	8316
16		8427	8538	8649	8760	8870	8981	9092	9203	9314	9425
17	593	9536	9647	9757	9868	9979	0090	0201	0312	0423	0533
18		0644	0755	0866	0977	1088	1199	1309	1420	1531	1642
19		1753	1863	1974	2085	2196	2307	2417	2528	2639	2750
3920		2861	2971	3082	3193	3304	3415	3525	3636	3747	3858
21		3968	4079	4190	4301	4411	4522	4633	4744	4854	4965
22		5076	5187	5297	5408	5519	5630	5740	5851	5962	6072
23		6183	6294	6404	6515	6626	6737	6847	6958	7069	7179
24		7290	7401	7511	7622	7733	7843	7954	8065	8175	8286
3925		8397	8507	8618	8729	8839	8950	9060	9171	9282	9392
25	594	9503	9614	9724	9835	9945	0056	0167	0277	0388	0498
26		0609	0720	0830	0941	1051	1162	1273	1383	1494	1604
27		1715	1825	1936	2046	2157	2268	2378	2489	2599	2710
28		2820	2931	3041	3152	3262	3373	3483	3594	3704	3815
3930		3926	4036	4147	4257	4368	4478	4588	4699	4809	4920
31		5030	5141	5251	5362	5472	5583	5693	5804	5914	6025
32		6135	6246	6356	6466	6577	6687	6798	6908	7019	7129
33		7239	7350	7460	7571	7681	7792	7902	8012	8123	8233
34		8344	8454	8564	8675	8785	8895	9006	9116	9227	9337
3935	595	9447	9558	9668	9778	9889	9999	0110	0220	0330	0441
36		0551	0661	0772	0882	0992	1103	1213	1323	1434	1544
37		1654	1764	1875	1985	2095	2206	2316	2426	2537	2647
38		2757	2867	2978	3088	3198	3308	3419	3529	3639	3750
39		3860	3970	4080	4191	4301	4411	4521	4632	4742	4852
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41		6064	6175	6285	6395	6505	6615	6725	6835	6946	7056
42		7166	7276	7387	7497	7607	7717	7827	7937	8047	8158
43		8268	8378	8488	8598	8708	8818	8929	9039	9149	9259
44	596	9369	9479	9589	9699	9810	9920	0030	0140	0250	0360
3945		0470	0580	0690	0800	0910	1020	1131	1241	1351	1461
46		1571	1681	1791	1901	2011	2121	2231	2341	2451	2561
47		2671	2781	2891	3001	3111	3221	3331	3441	3551	3661
48		3771	3881	3991	4101	4211	4321	4431	4541	4651	4761
49		4871	4981	5091	5201	5311	5421	5531	5641	5751	5861
3950		5971	6081	6191	6301	6411	6521	6631	6741	6850	6960
51		7070	7180	7290	7400	7510	7620	7730	7840	7950	8059
52		8169	8279	8389	8499	8609	8719	8829	8939	9048	9158
53	597	9268	9378	9488	9598	9708	9817	9927	0037	0147	0257
54		0367	0476	0586	0696	0806	0916	1026	1135	1245	1355
3955		1465	1575	1684	1794	1904	2014	2124	2233	2343	2453
56		2563	2673	2782	2892	3002	3112	3221	3331	3441	3551
57		3661	3770	3880	3990	4099	4209	4319	4429	4538	4648
58		4758	4868	4977	5087	5197	5306	5416	5526	5636	5745
59		5855	5965	6074	6184	6294	6403	6513	6623	6733	6842
3960		6952	7062	7171	7281	7391	7500	7610	7719	7829	7939
61		8048	8158	8268	8377	8487	8597	8706	8816	8925	9035
62		9145	9254	9364	9474	9583	9693	9802	9912	0022	0131
63	598	0241	0350	0460	0569	0679	0789	0898	1008	1117	1227
64		1336	1446	1556	1665	1775	1884	1994	2103	2213	2322
3965		2432	2541	2651	2761	2870	2980	3089	3199	3308	3418
66		3527	3637	3746	3856	3965	4075	4184	4294	4403	4513
67		4622	4731	4841	4950	5060	5169	5279	5388	5498	5607
68		5717	5826	5936	6045	6154	6264	6373	6483	6592	6702
69		6811	6920	7030	7139	7249	7358	7467	7577	7686	7796
3970		7905	8014	8124	8233	8343	8452	8561	8671	8780	8890
71		8999	9108	9218	9327	9436	9546	9655	9764	9874	9983
72	599	0092	0202	0311	0420	0530	0639	0748	0858	0967	1076
73		1186	1295	1404	1514	1623	1732	1841	1951	2060	2169
74		2279	2388	2497	2606	2716	2825	2934	3044	3153	3262
3975		3371	3481	3590	3699	3808	3918	4027	4136	4245	4355
76		4464	4573	4682	4791	4901	5010	5119	5228	5338	5447
77		5556	5665	5774	5884	5993	6102	6211	6320	6429	6539
78		6648	6757	6866	6975	7084	7194	7303	7412	7521	7630
79		7739	7849	7958	8067	8176	8285	8394	8503	8612	8722
3980		8831	8940	9049	9158	9267	9376	9485	9594	9704	9813
81	600	9922	0031	0140	0249	0358	0467	0576	0685	0794	0903
82		1013	1122	1231	1340	1449	1558	1667	1776	1885	1994
83		2103	2212	2321	2430	2539	2648	2757	2866	2975	3084
84		3193	3302	3411	3520	3629	3738	3847	3956	4065	4174
3985		4283	4392	4501	4610	4719	4828	4937	5046	5155	5264
86		5373	5482	5591	5700	5809	5918	6027	6136	6244	6353
87		6462	6571	6680	6789	6898	7007	7116	7225	7334	7443
88		7551	7660	7769	7878	7987	8096	8205	8314	8423	8531
89		8640	8749	8858	8967	9076	9185	9294	9402	9511	9620
3990	601	9729	9838	9947	0055	0164	0273	0382	0491	0600	0708
91		0817	0926	1035	1144	1253	1361	1470	1579	1688	1797
92		1905	2014	2123	2232	2340	2449	2558	2667	2776	2884
93		2993	3102	3211	3319	3428	3537	3646	3754	3863	3972
94		4081	4189	4298	4407	4516	4624	4733	4842	4950	5059
3995		5168	5277	5385	5494	5603	5711	5820	5929	6037	6146
96		6255	6363	6472	6581	6690	6798	6907	7016	7124	7233
97		7341	7450	7559	7667	7776	7885	7993	8102	8211	8319
98		8423	8537	8645	8754	8862	8971	9080	9188	9297	9405
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02		2771	2879	2988	3096	3205	3313	3422	3530	3639	3747
03		3856	3964	4073	4181	4290	4398	4507	4615	4724	4832
04		4941	5049	5158	5266	5375	5483	5591	5700	5808	5917
4005		6025	6134	6242	6351	6459	6567	6676	6784	6893	7001
06		7109	7218	7326	7435	7543	7651	7760	7868	7977	8085
07		8193	8302	8410	8519	8627	8735	8844	8952	9060	9169
08	603	9277	9385	9494	9602	9711	9819	9927	0035	0144	0252
09		0361	0469	0577	0686	0794	0902	1010	1119	1227	1335
4010		1444	1552	1660	1769	1877	1985	2093	2202	2310	2418
11		2527	2635	2743	2851	2960	3068	3176	3284	3393	3501
12		3609	3717	3826	3934	4042	4150	4259	4367	4475	4583
13		4692	4800	4908	5016	5124	5233	5341	5449	5557	5665
14		5774	5882	5990	6098	6206	6315	6423	6531	6639	6747
4015		6855	6964	7072	7180	7288	7396	7504	7613	7721	7829
16		7937	8045	8153	8261	8370	8478	8586	8694	8802	8910
17		9018	9126	9235	9343	9451	9559	9667	9775	9883	9991
18	604	0099	0207	0315	0424	0532	0640	0748	0856	0964	1072
19		1180	1288	1396	1504	1612	1720	1828	1936	2044	2152
4020		2261	2369	2477	2585	2693	2801	2909	3017	3125	3233
21		3341	3449	3557	3665	3773	3881	3989	4097	4205	4313
22		4421	4529	4637	4745	4853	4961	5068	5176	5284	5392
23		5500	5608	5716	5824	5932	6040	6148	6256	6364	6472
24		6580	6688	6796	6903	7011	7119	7227	7335	7443	7551
4025		7659	7767	7875	7983	8090	8198	8306	8414	8522	8630
26		8738	8846	8953	9061	9169	9277	9385	9493	9601	9708
27		9816	9924	0032	0140	0248	0356	0463	0571	0679	0787
28	605	0895	1002	1110	1218	1326	1434	1541	1649	1757	1865
29		1973	2080	2188	2296	2404	2512	2619	2727	2835	2943
4030		3050	3158	3266	3374	3482	3589	3697	3805	3912	4020
31		4128	4236	4343	4451	4559	4667	4774	4882	4990	5098
32		5205	5313	5421	5528	5636	5744	5851	5959	6067	6175
33		6282	6390	6498	6605	6713	6821	6928	7036	7144	7251
34		7359	7467	7574	7682	7790	7897	8005	8112	8220	8328
4035		8435	8543	8651	8758	8866	8974	9081	9189	9296	9404
36		9512	9619	9727	9834	9942	0050	0157	0265	0372	0480
37	606	0587	0695	0803	0910	1018	1125	1233	1340	1448	1556
38		1663	1771	1878	1986	2093	2201	2308	2416	2523	2631
39		2739	2846	2954	3061	3169	3276	3384	3491	3599	3706
4040		3814	3921	4029	4136	4244	4351	4459	4566	4674	4781
41		4889	4996	5103	5211	5318	5426	5533	5641	5748	5856
42		5963	6071	6178	6285	6393	6500	6608	6715	6823	6930
43		7037	7145	7252	7360	7467	7574	7682	7789	7897	8004
44		8111	8219	8326	8434	8541	8648	8756	8863	8971	9078
4045		9185	9293	9400	9507	9615	9722	9829	9937	0044	0151
46	607	0259	0366	0473	0581	0688	0795	0903	1010	1117	1225
47		1332	1439	1547	1654	1761	1869	1976	2083	2190	2298
48		2405	2512	2620	2727	2834	2941	3049	3156	3263	3371
49		3478	3585	3692	3800	3907	4014	4121	4229	4336	4443
4050		4550	4657	4765	4872	4979	5086	5194	5301	5408	5515
51		5622	5730	5837	5944	6051	6158	6266	6373	6480	6587
52		6694	6802	6909	7016	7123	7230	7337	7445	7552	7659
53		7766	7873	7980	8087	8195	8302	8409	8516	8623	8730
54		8837	8945	9052	9159	9266	9373	9480	9587	9694	9801
4055		9909	0016	0123	0230	0337	0444	0551	0658	0765	0872
56	608	0979	1087	1194	1301	1408	1515	1622	1729	1836	1943
57		2050	2157	2264	2371	2478	2585	2692	2799	2906	3013
58		3120	3227	3334	3441	3548	3656	3763	3870	3977	4084
59		4191	4298	4404	4511	4618	4725	4832	4939	5046	5153
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61		6330	6437	6544	6651	6758	6865	6972	7078	7185	7292
62		7399	7506	7613	7720	7827	7934	8041	8148	8254	8361
63		8468	8575	8682	8789	8896	9003	9110	9216	9323	9430
64	609	9537	9644	9751	9858	9964	0071	0178	0285	0392	0499
4065		0605	0712	0819	0926	1033	1140	1246	1353	1460	1567
66		1674	1781	1887	1994	2101	2208	2315	2421	2528	2635
67		2742	2849	2955	3062	3169	3276	3382	3489	3596	3703
68		3809	3916	4023	4130	4236	4343	4450	4557	4663	4770
69		4877	4984	5090	5197	5304	5411	5517	5624	5731	5837
4070		5944	6051	6157	6264	6371	6478	6584	6691	6798	6904
71		7011	7118	7224	7331	7438	7544	7651	7758	7864	7971
72		8078	8184	8291	8398	8504	8611	8718	8824	8931	9037
73	610	9144	9251	9357	9464	9571	9677	9784	9890	9997	0104
74		0210	0317	0423	0530	0637	0743	0850	0956	1063	1170
4075		1276	1383	1489	1596	1702	1809	1916	2022	2129	2235
76		2342	2448	2555	2661	2768	2874	2981	3088	3194	3301
77		3407	3514	3620	3727	3833	3940	4046	4153	4259	4366
78		4472	4579	4685	4792	4898	5005	5111	5218	5324	5431
79		5537	5644	5750	5856	5963	6069	6176	6282	6389	6495
4080		6602	6708	6815	6921	7027	7134	7240	7347	7453	7560
81		7666	7772	7879	7985	8092	8198	8304	8411	8517	8624
82		8730	8836	8943	9049	9156	9262	9368	9475	9581	9687
83	611	9794	9900	0007	0113	0219	0326	0432	0538	0645	0751
84		0857	0964	1070	1176	1283	1389	1495	1602	1708	1814
4085		1921	2027	2133	2240	2346	2452	2558	2665	2771	2877
86		2934	3040	3146	3252	3359	3465	3571	3678	3784	3890
87		4046	4153	4259	4365	4471	4578	4684	4790	4896	5003
88		5109	5215	5321	5428	5534	5640	5746	5852	5959	6065
89		6171	6277	6384	6490	6596	6702	6808	6915	7021	7127
4090		7233	7339	7445	7552	7658	7764	7870	7976	8082	8189
91		8295	8401	8507	8613	8719	8826	8932	9038	9144	9250
92	612	9356	9462	9569	9675	9781	9887	9993	0099	0205	0311
93		0417	0524	0630	0736	0842	0948	1054	1160	1266	1372
94		1478	1584	1691	1797	1903	2009	2115	2221	2327	2433
4095		2539	2645	2751	2857	2963	3069	3175	3281	3387	3493
96		3599	3706	3812	3918	4024	4130	4236	4342	4448	4554
97		4660	4766	4872	4978	5084	5190	5296	5402	5508	5614
98		5720	5826	5931	6037	6143	6249	6355	6461	6567	6673
99		6779	6885	6991	7097	7203	7309	7415	7521	7627	7733
4100		7839	7944	8050	8156	8262	8368	8474	8580	8686	8792
01		8898	9004	9109	9215	9321	9427	9533	9639	9745	9851
02	613	9957	0052	0158	0264	0380	0486	0592	0698	0803	0909
03		1015	1121	1227	1333	1439	1544	1650	1756	1862	1968
04		2074	2179	2285	2391	2497	2603	2708	2814	2920	3026
4105		3132	3237	3343	3449	3555	3661	3766	3872	3978	4084
06		4189	4295	4401	4507	4613	4718	4824	4930	5036	5141
07		5247	5353	5459	5564	5670	5776	5881	5987	6093	6199
08		6304	6410	6516	6621	6727	6833	6939	7044	7150	7256
09		7361	7467	7573	7678	7784	7890	7996	8101	8207	8313
4110		8418	8524	8630	8735	8841	8947	9052	9158	9263	9369
11	614	9475	9580	9686	9792	9897	0003	0109	0214	0320	0425
12		0531	0637	0742	0848	0954	1059	1165	1270	1376	1482
13		1587	1693	1798	1904	2009	2115	2221	2326	2432	2537
14		2643	2748	2854	2960	3065	3171	3276	3382	3487	3593
4115		3698	3804	3909	4015	4121	4226	4332	4437	4543	4648
16		4754	4859	4965	5070	5176	5281	5387	5492	5598	5703
17		5809	5914	6020	6125	6231	6336	6442	6547	6652	6758
18		6863	6969	7074	7180	7285	7391	7496	7602	7707	7812
19		7918	8023	8129	8234	8340	8445	8550	8656	8761	8867
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4180	621	1763	1867	1971	2075	2178	2282	2386	2490	2594	2698
81		2802	2906	3009	3113	3217	3321	3425	3529	3633	3736
82		3840	3944	4048	4152	4256	4359	4463	4567	4671	4775
83		4879	4982	5086	5190	5294	5398	5502	5605	5709	5813
84		5917	6021	6124	6228	6332	6436	6540	6643	6747	6851
4185		6955	7058	7162	7266	7370	7473	7577	7681	7785	7888
86		7992	8096	8200	8303	8407	8511	8615	8718	8822	8926
87		9030	9133	9237	9341	9444	9548	9652	9756	9859	9963
88	622	0067	0170	0274	0378	0482	0585	0689	0793	0896	1000
89		1104	1207	1311	1415	1518	1622	1726	1829	1933	2037
4190		2140	2244	2348	2451	2555	2658	2762	2866	2969	3073
91		3177	3280	3384	3487	3591	3695	3798	3902	4006	4109
92		4213	4316	4420	4524	4627	4731	4834	4938	5041	5145
93		5249	5352	5456	5559	5663	5766	5870	5974	6077	6181
94		6284	6388	6491	6595	6698	6802	6906	7009	7113	7216
4195		7320	7423	7527	7630	7734	7837	7941	8044	8148	8251
96		8355	8458	8562	8665	8769	8872	8976	9079	9183	9286
97	623	9390	9493	9597	9700	9804	9907	0011	0114	0217	0321
98		0424	0528	0631	0735	0838	0942	1045	1148	1252	1355
99		1459	1562	1666	1769	1872	1976	2079	2183	2286	2389
4200		2493	2596	2700	2803	2906	3010	3113	3217	3320	3423
01		3527	3630	3734	3837	3940	4044	4147	4250	4354	4457
02		4560	4664	4767	4871	4974	5077	5181	5284	5387	5491
03		5594	5697	5801	5904	6007	6111	6214	6317	6420	6524
04		6627	6730	6834	6937	7040	7144	7247	7350	7453	7557
4205		7660	7763	7867	7970	8073	8176	8280	8383	8486	8589
05		8693	8796	8899	9002	9106	9209	9312	9415	9519	9622
06		9725	9828	9932	0035	0138	0241	0344	0448	0551	0654
07	624	0757	0861	0964	1067	1170	1273	1377	1480	1583	1686
08		1789	1892	1996	2099	2202	2305	2408	2511	2615	2718
09											
4210		2821	2924	3027	3130	3234	3337	3440	3543	3646	3749
11		3852	3956	4059	4162	4265	4368	4471	4574	4677	4781
12		4884	4987	5090	5193	5296	5399	5502	5605	5708	5812
13		5915	6018	6121	6224	6327	6430	6533	6636	6739	6842
14		6945	7048	7151	7254	7358	7461	7564	7667	7770	7873
4215		7976	8079	8182	8285	8388	8491	8594	8697	8800	8903
16		9006	9109	9212	9315	9418	9521	9624	9727	9830	9933
17	625	0036	0139	0242	0345	0448	0551	0654	0757	0860	0963
18		1066	1169	1272	1375	1478	1581	1683	1786	1889	1992
19		2095	2198	2301	2404	2507	2610	2713	2816	2919	3022
4220		3125	3227	3330	3433	3536	3639	3742	3845	3948	4051
21		4154	4256	4359	4462	4565	4668	4771	4874	4977	5079
22		5182	5285	5388	5491	5594	5697	5799	5902	6005	6108
23		6211	6314	6416	6519	6622	6725	6828	6931	7033	7136
24		7239	7342	7445	7548	7650	7753	7856	7959	8062	8164
4225		8267	8370	8473	8575	8678	8781	8884	8987	9089	9192
26		9293	9398	9500	9603	9706	9809	9911	0014	0117	0220
27	626	0322	0425	0528	0631	0733	0836	0939	1042	1144	1247
28		1350	1453	1555	1658	1761	1863	1966	2069	2171	2274
29		2377	2480	2582	2685	2788	2890	2993	3096	3198	3301
4230		3404	3506	3609	3712	3814	3917	4020	4122	4225	4328
31		4430	4533	4636	4738	4841	4943	5046	5149	5251	5354
32		5457	5559	5662	5764	5867	5970	6072	6175	6277	6380
33		6483	6585	6688	6790	6893	6996	7098	7201	7303	7406
34		7509	7611	7714	7816	7919	8021	8124	8226	8329	8432
4235		8534	8637	8739	8842	8944	9047	9149	9252	9354	9457
36		9560	9662	9765	9867	9970	0072	0175	0277	0380	0482
37	627	0585	0687	0790	0892	0995	1097	1200	1302	1405	1507
38		1610	1712	1814	1917	2019	2122	2224	2327	2429	2532
39		2634	2737	2839	2942	3044	3146	3249	3351	3454	3556
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4240	627	3659	3761	3863	3965	4068	4171	4273	4376	4478	4580
41		4683	4785	4888	4990	5092	5195	5297	5399	5502	5604
42		5707	5809	5911	6014	6116	6219	6321	6423	6525	6628
43		6730	6833	6935	7037	7140	7242	7344	7447	7549	7651
44		7754	7856	7958	8061	8163	8265	8368	8470	8572	8675
4245		8777	8879	8982	9084	9186	9288	9391	9493	9595	9698
45	628	9800	9902	0004	0107	0209	0311	0414	0516	0618	0720
47		0823	0925	1027	1129	1232	1334	1436	1538	1641	1743
48		1845	1947	2050	2152	2254	2356	2458	2561	2663	2765
49		2867	2970	3072	3174	3276	3378	3481	3583	3685	3787
4250		3889	3991	4094	4196	4298	4400	4502	4605	4707	4809
51		4911	5013	5115	5218	5320	5422	5524	5626	5728	5830
52		5933	6035	6137	6239	6341	6443	6545	6647	6750	6852
53		6954	7056	7158	7260	7362	7464	7566	7669	7771	7873
54		7975	8077	8179	8281	8383	8485	8587	8689	8792	8894
4255		8996	9098	9200	9302	9404	9506	9608	9710	9812	9914
66	629	0016	0118	0220	0322	0424	0526	0628	0730	0832	0934
67		1037	1139	1241	1343	1445	1547	1649	1751	1853	1955
68		2057	2159	2261	2363	2465	2567	2669	2771	2874	2976
69		3078	3180	3282	3384	3486	3588	3690	3792	3894	3996
4260		4098	4198	4300	4402	4504	4606	4708	4810	4911	5013
61		5115	5217	5319	5421	5523	5625	5727	5829	5931	6033
62		6134	6236	6338	6440	6542	6644	6746	6848	6950	7051
63		7153	7255	7357	7459	7561	7663	7765	7867	7969	8070
64		8172	8274	8376	8478	8579	8681	8783	8885	8987	9088
4265	630	9190	9292	9394	9496	9598	9699	9801	9903	0005	0107
65		0209	0310	0412	0514	0616	0717	0819	0921	1023	1125
67		1226	1328	1430	1532	1634	1735	1837	1939	2041	2142
68		2244	2346	2448	2549	2651	2753	2855	2956	3058	3160
69		3262	3363	3465	3567	3668	3770	3872	3974	4075	4177
4270		4277	4380	4482	4584	4686	4787	4889	4991	5092	5194
71		5296	5397	5499	5601	5702	5804	5906	6007	6109	6211
72		6312	6414	6516	6617	6719	6821	6922	7024	7126	7227
73		7329	7431	7532	7634	7735	7837	7939	8040	8142	8244
74		8345	8447	8548	8650	8752	8853	8955	9056	9158	9259
4275	631	9361	9463	9564	9666	9768	9869	9971	0072	0174	0275
75		0377	0479	0580	0682	0783	0885	0986	1088	1189	1291
77		1392	1494	1595	1697	1799	1900	2002	2103	2205	2306
78		2408	2509	2611	2712	2814	2915	3017	3118	3220	3321
79		3423	3524	3626	3727	3829	3930	4032	4133	4235	4336
4280		4438	4539	4641	4742	4844	4945	5046	5148	5249	5351
81		5452	5554	5655	5757	5858	5959	6061	6162	6264	6365
82		6467	6568	6669	6771	6872	6974	7075	7177	7278	7379
83		7481	7582	7684	7785	7886	7988	8089	8190	8292	8393
84		8495	8596	8697	8799	8900	9001	9103	9204	9306	9407
4285	632	9508	9610	9711	9812	9914	0015	0116	0218	0319	0420
85		0522	0623	0724	0826	0927	1028	1130	1231	1332	1434
87		1535	1636	1737	1839	1940	2041	2143	2244	2345	2446
88		2548	2649	2750	2852	2953	3054	3155	3257	3358	3459
89		3560	3662	3763	3864	3965	4067	4168	4269	4370	4472
4290		4573	4674	4775	4877	4978	5079	5180	5282	5383	5484
91		5585	5686	5788	5889	5990	6091	6192	6294	6395	6496
92		6597	6698	6800	6901	7002	7103	7204	7305	7407	7508
93		7609	7710	7811	7912	8014	8115	8216	8317	8418	8519
94		8620	8722	8823	8924	9025	9126	9227	9328	9429	9531
4295	633	9632	9733	9834	9935	0036	0137	0238	0339	0441	0542
95		0643	0744	0845	0946	1047	1148	1249	1350	1451	1552
97		1654	1755	1856	1957	2058	2159	2260	2361	2462	2563
98		2664	2765	2866	2967	3068	3169	3270	3371	3472	3573
99		3674	3775	3876	3978	4079	4180	4281	4382	4483	4584
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4300	633	4685	4786	4887	4988	5089	5190	5291	5391	5492	5593
01		5694	5795	5896	5997	6098	6199	6300	6401	6502	6603
02		6704	6805	6906	7007	7108	7209	7310	7411	7512	7613
03		7713	7814	7915	8016	8117	8218	8319	8420	8521	8622
04		8723	8824	8925	9026	9127	9227	9328	9429	9530	9631
4305	634	9732	9832	9933	0034	0135	0236	0337	0438	0539	0639
05		0740	0841	0942	1043	1144	1245	1345	1446	1547	1648
07		1749	1850	1950	2051	2152	2253	2354	2455	2555	2656
08		2757	2858	2959	3059	3160	3261	3362	3463	3563	3664
09		3765	3866	3967	4067	4168	4269	4370	4470	4571	4672
4310		4773	4873	4974	5075	5176	5276	5377	5478	5579	5679
11		5780	5881	5982	6082	6183	6284	6385	6485	6586	6687
12		6788	6888	6989	7090	7190	7291	7392	7492	7593	7694
13		7795	7895	7996	8097	8197	8298	8399	8499	8600	8701
14		8801	8902	9003	9103	9204	9305	9405	9506	9607	9707
4315	635	9808	9909	0009	0110	0211	0311	0412	0512	0613	0714
16		0814	0915	1016	1116	1217	1317	1418	1519	1619	1720
17		1820	1921	2022	2122	2223	2323	2424	2525	2625	2726
18		2826	2927	3028	3128	3229	3329	3430	3530	3631	3731
19		3832	3933	4033	4134	4234	4335	4435	4536	4636	4737
4320		4837	4938	5039	5139	5240	5340	5441	5541	5642	5742
21		5843	5943	6044	6144	6245	6345	6446	6546	6647	6747
22		6848	6948	7049	7149	7250	7350	7450	7551	7651	7752
23		7852	7953	8053	8154	8254	8355	8455	8556	8656	8756
24		8857	8957	9058	9158	9259	9359	9459	9560	9660	9761
4325	636	9861	9962	0062	0162	0263	0363	0464	0564	0664	0765
26		0865	0966	1066	1166	1267	1367	1467	1568	1668	1769
27		1869	1969	2070	2170	2270	2371	2471	2571	2672	2772
28		2873	2973	3073	3174	3274	3374	3475	3575	3675	3776
29		3876	3976	4076	4177	4277	4377	4478	4578	4678	4779
4330		4879	4979	5080	5180	5280	5380	5481	5581	5681	5782
31		5882	5982	6083	6183	6283	6383	6483	6584	6684	6784
32		6884	6985	7085	7185	7285	7386	7486	7586	7687	7787
33		7887	7987	8087	8188	8288	8388	8488	8588	8689	8789
34		8889	8989	9089	9190	9290	9390	9490	9590	9691	9791
4335	637	9891	9991	0091	0192	0292	0392	0492	0592	0692	0793
36		0893	0993	1093	1193	1293	1394	1494	1594	1694	1794
37		1894	1994	2094	2195	2295	2395	2495	2595	2695	2795
38		2895	2996	3096	3196	3296	3396	3496	3596	3696	3796
39		3897	3997	4097	4197	4297	4397	4497	4597	4697	4797
4340		4897	4997	5097	5197	5298	5398	5498	5598	5698	5798
41		5898	5998	6098	6198	6298	6398	6498	6598	6698	6798
42		6898	6998	7098	7198	7298	7398	7498	7598	7698	7798
43		7898	7998	8098	8198	8298	8398	8498	8598	8698	8798
44		8898	8998	9098	9198	9298	9398	9498	9598	9698	9798
4345	638	9898	9998	0098	0198	0298	0398	0497	0597	0697	0797
46		0897	0997	1097	1197	1297	1397	1497	1597	1697	1796
47		1896	1996	2096	2196	2296	2396	2496	2596	2696	2795
48		2895	2995	3095	3195	3295	3395	3495	3594	3694	3794
49		3894	3994	4094	4194	4294	4393	4493	4593	4693	4793
4350		4893	4992	5092	5192	5292	5392	5492	5591	5691	5791
51		5891	5991	6091	6191	6291	6390	6490	6589	6689	6789
52		6889	6989	7088	7188	7288	7388	7488	7587	7687	7787
53		7887	7986	8086	8186	8286	8385	8485	8585	8685	8784
54		8884	8984	9084	9183	9283	9383	9483	9582	9682	9782
4355	639	9882	9981	0081	0181	0280	0380	0480	0580	0679	0779
56		0879	0978	1078	1178	1277	1377	1477	1577	1676	1776
57		1876	1975	2075	2175	2274	2374	2474	2573	2673	2773
58		2872	2972	3072	3171	3271	3371	3470	3570	3669	3769
59		3869	3968	4068	4168	4267	4367	4466	4566	4666	4765
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4360	639	4865	4965	5064	5164	5263	5363	5463	5562	5662	5761
61		5861	5960	6060	6160	6259	6359	6458	6558	6657	6757
62		6357	6456	6556	6656	6755	6854	6954	7053	7153	7253
63		7852	7952	8051	8151	8250	8350	8449	8549	8648	8748
64		8847	8947	9046	9146	9245	9345	9444	9544	9643	9743
4365	640	9842	9942	0041	0141	0240	0340	0439	0539	0638	0738
66		0837	0937	1036	1136	1235	1335	1434	1534	1633	1732
67		1832	1931	2031	2130	2230	2329	2429	2528	2627	2727
68		2826	2926	3025	3125	3224	3323	3423	3522	3622	3721
69		3820	3920	4019	4119	4218	4317	4417	4516	4616	4715
4370		4814	4914	5013	5113	5212	5311	5411	5510	5609	5709
71		5808	5907	6007	6106	6205	6305	6404	6504	6603	6702
72		6802	6901	7000	7100	7199	7298	7398	7497	7596	7695
73		7795	7894	7993	8093	8192	8291	8391	8490	8589	8688
74		8788	8887	8986	9086	9185	9284	9383	9483	9582	9681
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76		0773	0872	0972	1071	1170	1269	1369	1468	1567	1666
77		1765	1865	1964	2063	2162	2262	2361	2460	2559	2658
78		2758	2857	2956	3055	3154	3254	3353	3452	3551	3650
79		3749	3849	3948	4047	4146	4245	4344	4444	4543	4642
4280		4741	4840	4939	5039	5138	5237	5336	5435	5534	5633
81		5733	5832	5931	6030	6129	6228	6327	6426	6525	6625
82		6724	6823	6922	7021	7120	7219	7318	7417	7517	7616
83		7715	7814	7913	8012	8111	8210	8309	8408	8507	8606
84		8705	8805	8904	9003	9102	9201	9300	9399	9498	9597
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86		0686	0785	0884	0983	1082	1181	1280	1379	1478	1577
87		1676	1775	1874	1973	2072	2171	2270	2369	2468	2567
88		2666	2765	2864	2963	3062	3161	3260	3359	3458	3557
89		3656	3755	3854	3953	4052	4151	4249	4348	4447	4546
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91		5634	5733	5832	5931	6030	6129	6228	6327	6426	6524
92		6623	6722	6821	6920	7019	7118	7217	7316	7414	7513
93		7612	7711	7810	7909	8007	8106	8205	8304	8403	8502
94		8601	8699	8798	8897	8996	9095	9194	9292	9391	9490
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96		0577	0676	0774	0873	0972	1071	1170	1268	1367	1466
97		1565	1663	1762	1861	1960	2058	2157	2256	2355	2454
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02		6500	6599	6698	6796	6895	6994	7092	7191	7290	7388
03		7487	7585	7684	7783	7881	7980	8079	8177	8276	8374
04		8473	8572	8670	8769	8868	8966	9065	9163	9262	9361
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07		1431	1529	1628	1726	1825	1923	2022	2120	2219	2317
08		2416	2514	2613	2711	2810	2908	3007	3105	3204	3302
09		3401	3499	3598	3696	3795	3893	3992	4090	4189	4287
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11		5371	5469	5567	5666	5764	5863	5961	6060	6158	6257
12		6355	6453	6552	6650	6749	6847	6946	7044	7142	7241
13		7339	7438	7536	7635	7733	7831	7930	8028	8127	8225
14		8323	8422	8520	8618	8717	8815	8914	9012	9110	9209
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16		0291	0389	0487	0586	0684	0782	0881	0979	1077	1176
17		1274	1372	1471	1569	1667	1766	1864	1962	2061	2159
18		2257	2355	2454	2552	2650	2749	2847	2945	3043	3142
19		3240	3338	3437	3535	3633	3731	3830	3928	4026	4124
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22		6187	6286	6384	6482	6580	6678	6777	6875	6973	7071
23		7169	7268	7366	7464	7562	7660	7758	7857	7955	8053
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27		1095	1193	1291	1390	1488	1586	1684	1782	1880	1978
28		2076	2174	2272	2370	2468	2566	2665	2763	2861	2959
29		3057	3155	3253	3351	3449	3547	3645	3743	3841	3939
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31		5018	5116	5214	5312	5410	5508	5606	5704	5802	5900
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33		6977	7075	7173	7271	7369	7467	7565	7663	7761	7859
34		7957	8055	8153	8251	8349	8447	8545	8643	8740	8838
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37	647	0884	0982	1080	1178	1276	1374	1472	1570	1667	1765
38		1873	1971	2069	2167	2264	2362	2460	2558	2656	2754
39		2851	2949	3047	3145	3243	3341	3438	3536	3634	3732
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41		4808	4906	5003	5101	5199	5297	5394	5492	5590	5688
42		5786	5883	5981	6079	6177	6274	6372	6470	6568	6665
43		6763	6861	6959	7056	7154	7252	7350	7447	7545	7643
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46		9695	9792	9890	9988	0085	0183	0281	0378	0476	0574
47	648	0671	0769	0867	0964	1062	1160	1257	1355	1453	1550
48		1648	1745	1843	1941	2038	2136	2234	2331	2429	2526
49		2624	2722	2819	2917	3015	3112	3210	3307	3405	3503
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51		4576	4674	4771	4869	4966	5064	5161	5259	5356	5454
52		5552	5649	5747	5844	5942	6039	6137	6234	6332	6429
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58		1401	1498	1595	1693	1790	1888	1985	2083	2180	2277
59		2375	2472	2570	2667	2764	2862	2959	3056	3154	3251
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61		4322	4420	4517	4614	4712	4809	4906	5004	5101	5198
62		5286	5383	5480	5578	5675	5772	5869	5967	6064	6162
63		6269	6366	6463	6561	6658	6755	6853	6950	7047	7145
64		7242	7339	7436	7534	7631	7728	7826	7923	8020	8117
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66		9187	9284	9382	9479	9575	9673	9771	9868	9965	0062
67	650	0160	0257	0354	0451	0548	0645	0743	0840	0937	1034
68		1132	1229	1326	1423	1520	1618	1715	1812	1909	2006
69		2104	2201	2298	2395	2492	2589	2687	2784	2881	2978
4470		3075	3172	3270	3367	3464	3561	3658	3755	3852	3950
71		4047	4144	4241	4338	4435	4532	4629	4727	4824	4921
72		5018	5115	5212	5309	5406	5503	5601	5698	5795	5892
73		5989	6086	6183	6280	6377	6474	6571	6669	6766	6863
74		6960	7057	7154	7251	7348	7445	7542	7639	7736	7833
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76		8901	8998	9095	9192	9289	9386	9483	9580	9677	9774
77	651	9871	9968	0065	0162	0259	0356	0453	0550	0647	0744
78		0841	0938	1035	1132	1229	1326	1423	1520	1617	1714
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83	5687	5784	5881	5978	6075	4172	6269	6365	6462	6559	3 29
84	6656	6753	6850	6947	7043	7140	7237	7334	7431	7528	4 39
4485	7624	7721	7818	7915	8012	8109	8205	8302	8399	8496	5 49
86	8593	8690	8786	8883	8980	9077	9174	9270	9367	9464	6 58
87	652 9561	9657	9754	9851	9948	0045	0141	0238	0335	0432	7 68
88	0528	0625	0722	0819	0916	1012	1109	1206	1303	1399	8 78
89	1496	1593	1690	1786	1883	1980	2076	2173	2270	2367	9 87
4490	2463	2560	2657	2754	2850	2947	3044	3140	3237	3334	
91	3431	3527	3624	3721	3817	3914	4011	4107	4204	4301	
92	4377	4474	4571	4668	4764	4861	4958	5054	5151	5248	
93	5364	5461	5558	5654	5751	5847	5944	6041	6137	6234	
94	6331	6427	6524	6621	6717	6814	6910	7007	7104	7200	
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96	8263	8360	8456	8553	8649	8746	8843	8939	9036	9132	
97	653 9229	9325	9422	9519	9615	9712	9808	9905	0001	0098	
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03	5019	5115	5212	5309	5405	5502	5598	5695	5791	5887	
04	5984	6080	6177	6273	6369	6466	6562	6659	6755	6852	
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06	7912	8008	8105	8201	8297	8394	8490	8586	8683	8779	
07	8876	8972	9068	9165	9261	9357	9454	9550	9646	9743	
08	654 9839	9935	0032	0128	0224	0321	0417	0513	0610	0706	
09	0802	0899	0995	1091	1188	1284	1380	1477	1573	1669	
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11	2728	2825	2921	3017	3113	3210	3306	3402	3498	3595	
12	3691	3787	3883	3980	4076	4172	4268	4365	4461	4557	
13	4653	4750	4846	4942	5038	5134	5231	5327	5423	5519	
14	5616	5712	5808	5904	6000	6097	6193	6289	6385	6481	
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18	655 9462	9558	9655	9751	9847	9943	0039	0135	0231	0327	
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22	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	
23	4266	4362	4458	4554	4650	4746	4842	4938	5034	5130	
24	5226	5322	5418	5514	5610	5706	5802	5898	5994	6090	
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26	7145	7241	7337	7433	7529	7625	7721	7817	7913	8009	1 10
27	8105	8201	8297	8393	8489	8585	8681	8777	8873	8968	2 19
28	9064	9160	9256	9352	9448	9544	9640	9736	9831	9927	3 29
29	656 0023	0119	0215	0311	0407	1503	0599	0694	0790	0886	4 38
4530	0982	1078	1174	1270	1365	1461	1557	1653	1749	1845	5 48
31	1941	2036	2132	2228	2324	2420	2516	2612	2707	2803	6 58
32	2899	2995	3091	3186	3282	3378	3474	3570	3666	3761	7 67
33	3857	3953	4049	4145	4240	4336	4432	4528	4624	4719	8 77
34	4815	4911	5007	5103	5198	5294	5390	5486	5581	5677	9 86
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42		2471	2567	2663	2758	2854	2949	3045	3141	3236	3332
43		3427	3523	3619	3714	3810	3905	4001	4096	4192	4288
44		4383	4479	4574	4670	4766	4861	4957	5052	5148	5243
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47		7250	7345	7441	7536	7632	7727	7823	7918	8014	8109
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51		1068	1164	1259	1355	1450	1545	1641	1736	1832	1927
52		2023	2118	2213	2309	2404	2500	2595	2690	2786	2881
53		2977	3072	3167	3263	3358	3453	3549	3644	3740	3835
54		3930	4026	4121	4216	4312	4407	4502	4598	4693	4788
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57		6790	6886	6981	7076	7171	7267	7362	7457	7553	7648
58		7743	7838	7934	8029	8124	8220	8315	8410	8505	8601
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67		6310	6405	6500	6595	6690	6786	6881	6976	7071	7166
68		7261	7356	7451	7546	7641	7736	7831	7926	8021	8117
69		8212	8307	8402	8497	8592	8687	8782	8877	8972	9067
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72		1062	1157	1252	1347	1442	1537	1632	1727	1822	1917
73		2012	2107	2202	2297	2392	2487	2582	2677	2772	2867
74		2962	3057	3151	3246	3341	3436	3531	3626	3721	3816
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76		4860	4955	5050	5145	5240	5335	5430	5524	5619	5714
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79		7706	7801	7896	7991	8086	8181	8275	8370	8465	8560
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86		4341	4435	4530	4625	4719	4814	4909	5003	5098	5193
87		5287	5382	5477	5571	5666	5761	5855	5950	6045	6139
88		6234	6329	6423	6518	6613	6707	6802	6897	6991	7086
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91		9073	9168	9262	9357	9451	9546	9640	9735	9830	9924
92	662	0019	0113	0208	0303	0397	0492	0586	0681	0775	0870
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98		5690	5784	5879	5973	6067	6162	6256	6351	6445	6540
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02		9466	9561	9655	9749	9844	9938	0032	0127	0221	0315
03	663	0410	0504	0598	0693	0787	0881	0976	1070	1164	1259
04		1353	1447	1542	1636	1730	1825	1919	2013	2108	2202
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09		6067	6161	6255	6350	6444	6538	6632	6727	6821	6915
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11		7951	8045	8140	8234	8328	8422	8516	8610	8705	8799
12		8893	8987	9081	9175	9270	9364	9458	9552	9646	9740
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17		3599	3693	3787	3881	3975	4069	4163	4257	4351	4445
18		4539	4633	4727	4821	4915	5009	5104	5198	5292	5386
19		5480	5574	5668	5762	5856	5950	6044	6138	6232	6326
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21		7360	7454	7548	7642	7736	7830	7924	8018	8111	8205
22		8299	8393	8487	8581	8675	8769	8863	8957	9051	9145
23	665	9239	9333	9427	9521	9615	9709	9803	9897	9990	0084
24		0178	0272	0366	0460	0554	0648	0742	0836	0930	1023
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26		2056	2150	2244	2338	2432	2526	2620	2713	2807	2901
27		2995	3089	3183	3277	3370	3464	3558	3652	3746	3840
28		3934	4027	4121	4215	4309	4403	4497	4590	4684	4778
29		4872	4966	5059	5153	5247	5341	5435	5529	5622	5716
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31		6748	6842	6935	7029	7123	7217	7310	7404	7498	7592
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37		2371	2465	2558	2652	2746	2839	2933	3027	3120	3214
38		3307	3401	3495	3588	3682	3776	3869	3963	4056	4150
39		4244	4337	4431	4525	4618	4712	4805	4899	4993	5086
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41		6116	6209	6303	6396	6490	6584	6677	6771	6864	6958
42		7051	7145	7238	7332	7426	7519	7613	7706	7800	7893
43		7987	8080	8174	8267	8361	8454	8548	8642	8735	8829
44		8922	9016	9109	9203	9296	9390	9483	9577	9670	9764
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46	667	0792	0886	0979	1072	1166	1259	1353	1446	1540	1633
47		1727	1820	1914	2007	2101	2194	2287	2381	2474	2568
48		2661	2755	2848	2941	3035	3128	3222	3315	3409	3502
49		3595	3689	3782	3876	3969	4063	4156	4249	4343	4436
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51		5463	5557	5650	5744	5837	5930	6024	6117	6210	6304
52		6397	6490	6584	6677	6770	6864	6957	7051	7144	7237
53		7331	7424	7517	7611	7704	7797	7891	7984	8077	8170
54		8264	8357	8450	8544	8637	8730	8824	8917	9010	9104
4655		9197	9290	9383	9477	9570	9663	9757	9850	9943	0036
56	668	0130	0223	0316	0410	0503	0596	0690	0783	0876	0969
57		1062	1156	1249	1342	1435	1529	1622	1715	1808	1902
58		1995	2088	2181	2275	2368	2461	2554	2647	2741	2834
59		2927	3020	3114	3207	3300	3393	3486	3579	3673	3766
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62		5723	5816	5909	6002	6095	6188	6282	6375	6468	6561
63		6654	6747	6840	6934	7027	7120	7213	7306	7399	7492
64		7585	7679	7772	7865	7958	8051	8144	8237	8330	8423
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66	669	9447	9540	9633	9727	9820	9913	0006	0099	0192	0285
67		0378	0471	0564	0657	0750	0843	0936	1029	1122	1215
68		1308	1402	1495	1588	1681	1774	1867	1960	2053	2146
69		2239	2332	2425	2518	2611	2704	2797	2890	2983	3076
4670		3169	3262	3355	3448	3541	3634	3727	3820	3913	4006
71		4099	4192	4285	4378	4471	4564	4656	4749	4842	4935
72		5028	5121	5214	5307	5400	5493	5586	5679	5772	5865
73		5958	6051	6144	6237	6330	6422	6515	6608	6701	6794
74		6887	6980	7073	7166	7259	7352	7445	7537	7630	7723
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76		8745	8838	8931	9024	9117	9209	9302	9395	9488	9581
77	670	9674	9767	9859	9952	0045	0138	0231	0324	0416	0509
78		0602	0695	0788	0881	0974	1066	1159	1252	1345	1438
79		1530	1623	1716	1809	1902	1995	2087	2180	2273	2366
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81		3386	3479	3572	3665	3758	3850	3943	4036	4129	4221
82		4314	4407	4500	4592	4685	4778	4871	4963	5056	5149
83		5242	5334	5427	5520	5613	5705	5798	5891	5983	6076
84		6169	6262	6354	6447	6540	6632	6725	6818	6911	7003
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86		8023	8116	8208	8301	8394	8486	8579	8672	8764	8857
87		8950	9042	9135	9228	9320	9413	9505	9598	9691	9783
88		9876	9969	0061	0154	0247	0339	0432	0524	0617	0710
89	671	0802	0895	0988	1080	1173	1265	1358	1451	1543	1636
4690		1728	1821	1914	2006	2099	2191	2284	2377	2469	2562
91		2654	2747	2839	2932	3025	3117	3210	3302	3395	3487
92		3580	3673	3765	3858	3950	4043	4135	4228	4320	4413
93		4506	4598	4691	4783	4876	4968	5061	5153	5246	5338
94		5431	5523	5616	5708	5801	5893	5986	6078	6171	6263
4695		6356	6448	6541	6633	6726	6818	6911	7003	7096	7188
96		7281	7373	7466	7558	7651	7743	7836	7928	8021	8113
97		8206	8298	8391	8483	8575	8668	8760	8853	8945	9038
98		9130	9223	9315	9407	9500	9592	9685	9777	9870	9962
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01		1903	1995	2087	2180	2272	2364	2457	2549	2642	2734
02		2826	2919	3011	3103	3196	3288	3380	3473	3565	3657
03		3750	3842	3934	4027	4119	4211	4304	4396	4488	4581
04		4673	4765	4858	4950	5042	5135	5227	5319	5412	5504
4705		5596	5689	5781	5873	5965	6058	6150	6242	6335	6427
06		6519	6612	6704	6796	6888	6981	7073	7165	7257	7350
07		7442	7534	7627	7719	7811	7903	7995	8088	8180	8272
08		8365	8457	8549	8641	8734	8826	8918	9010	9102	9195
09		9287	9379	9471	9564	9656	9748	9840	9932		
4710	673	0209	0301	0393	0486	0578	0670	0762	0854	0947	1039
11		1131	1223	1315	1408	1500	1592	1684	1776	1868	1961
12		2053	2145	2237	2329	2421	2514	2606	2698	2790	2882
13		2974	3067	3159	3251	3343	3435	3527	3619	3712	3804
14		3896	3988	4080	4172	4264	4356	4449	4541	4633	4725
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16		5738	5830	5922	6014	6106	6198	6290	6383	6475	6567
17		6659	6751	6843	6935	7027	7119	7211	7303	7395	7487
18		7579	7671	7763	7856	7948	8040	8132	8224	8316	8408
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22	1260	1352	1444	1536	1628	1720	1812	1904	1996	2088	2 18
23	2179	2271	2363	2455	2547	2639	2731	2823	2915	3007	3 28
24	3099	3191	3283	3375	3467	3559	3650	3742	3834	3926	4 37
4725	4018	4110	4202	4294	4386	4478	4570	4661	4753	4845	5 46
26	4937	5029	5121	5213	5305	5397	5489	5580	5672	5764	6 55
27	5856	5948	6040	6132	6224	6315	6407	6499	6591	6683	7 64
28	6775	6867	6958	7050	7142	7234	7326	7418	7509	7601	8 74
29	7693	7785	7877	7969	8060	8152	8244	8336	8428	8520	9 83
4730	8511	8703	8795	8887	8979	9070	9162	9254	9346	9438	
31	675 9529	9621	9713	9805	9897	9988	0080	0172	0264	0356	
32	0447	0539	0631	0723	0814	0906	0998	1090	1182	1273	
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36	5034	5126	5217	5309	5401	5492	5584	5676	5767	5859	
38	5951	6042	6134	6226	6317	6409	6501	6592	6684	6775	
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48	5107	5199	5290	5382	5473	5564	5656	5747	5839	5930	
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52	8764	8856	8947	9038	9130	9221	9313	9404	9495	9587	
53	677 9678	9770	9861	9952	0044	0135	0226	0318	0409	0500	
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68	3362	3454	3545	3636	3727	3818	3909	4000	4091	4182	
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86	680	9727	9818	9908	9999	0090	0181	0271	0362	0453	0544
87		0634	0725	0816	0906	0997	1088	1179	1269	1360	1451
88		1541	1632	1723	1814	1904	1995	2086	2176	2267	2358
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91		4262	4352	4443	4534	4624	4715	4806	4896	4987	5077
92		5168	5259	5349	5440	5531	5621	5712	5802	5893	5984
93		6074	6165	6255	6346	6437	6527	6618	6709	6799	6890
94		6980	7071	7161	7252	7343	7433	7524	7614	7705	7796
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96		8792	8882	8973	9063	9154	9244	9335	9426	9516	9607
97	681	9697	9788	9878	9969	0059	0150	0240	0331	0421	0512
98		0602	0693	0783	0874	0964	1055	1145	1236	1327	1417
99		1507	1598	1688	1779	1869	1960	2050	2141	2231	2322
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01		3317	3408	3498	3588	3679	3769	3860	3950	4041	4131
02		4222	4312	4402	4493	4583	4674	4764	4855	4945	5036
03		5126	5216	5307	5397	5488	5578	5668	5759	5849	5940
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06		7838	7928	8018	8109	8199	8289	8380	8470	8561	8651
07		8741	8832	8922	9012	9103	9193	9283	9374	9464	9554
08	682	9645	9735	9825	9916	0006	0096	0187	0277	0367	0457
09		0548	0638	0728	0819	0909	0999	1090	1180	1270	1360
4810		1451	1541	1631	1722	1812	1902	1992	2083	2173	2263
11		2354	2444	2534	2624	2715	2805	2895	2985	3076	3166
12		3266	3346	3437	3527	3617	3707	3798	3888	3978	4068
13		4159	4249	4339	4429	4520	4610	4700	4790	4880	4971
14		5061	5151	5241	5331	5422	5512	5602	5692	5783	5873
4815		5963	6053	6143	6233	6324	6414	6504	6594	6684	6775
16		6865	6955	7045	7135	7225	7316	7406	7496	7586	7676
17		7766	7857	7947	8037	8127	8217	8307	8398	8488	8578
18		8668	8758	8848	8938	9029	9119	9209	9299	9389	9479
19	683	9569	9659	9750	9840	9930	0020	0110	0200	0290	0380
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21		1371	1461	1551	1642	1732	1822	1912	2002	2092	2182
22		2272	2362	2452	2542	2632	2722	2812	2902	2993	3083
23		3173	3263	3353	3443	3533	3623	3713	3803	3893	3983
24		4073	4163	4253	4343	4433	4523	4613	4703	4793	4883
4825		4973	5063	5153	5243	5333	5423	5513	5603	5693	5783
26		5873	5963	6053	6143	6233	6323	6413	6503	6593	6683
27		6773	6863	6953	7043	7133	7223	7313	7403	7493	7583
28		7673	7763	7853	7942	8032	8122	8212	8302	8392	8482
29		8572	8662	8752	8842	8932	9022	9112	9202	9291	9381
4830	684	9471	9561	9651	9741	9831	9921	0011	0101	0191	0280
31		0370	0460	0550	0640	0730	0820	0910	1000	1089	1179
32		1269	1359	1449	1539	1629	1719	1808	1898	1988	2078
33		2168	2258	2348	2438	2527	2617	2707	2797	2887	2977
34		3066	3156	3246	3336	3426	3516	3606	3695	3785	3875
4835		3965	4055	4144	4234	4324	4414	4504	4594	4683	4773
36		4863	4953	5043	5132	5222	5312	5402	5492	5581	5671
37		5761	5851	5940	6030	6120	6210	6300	6389	6479	6569
38		6659	6748	6838	6928	7018	7107	7197	7287	7377	7466
39		7566	7646	7736	7825	7915	8005	8095	8184	8274	8364
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42		0248	0338	0427	0517	0607	0696	0786	0876	0965	1055
43		1145	1234	1324	1414	1503	1593	1683	1772	1862	1952
44		2041	2131	2221	2310	2400	2490	2579	2669	2759	2848
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46		3834	3924	4013	4103	4193	4282	4372	4461	4551	4641
47		4730	4820	4909	4999	5089	5178	5268	5357	5447	5537
48		5626	5716	5805	5895	5984	6074	6164	6253	6343	6432
49		6522	6611	6701	6791	6880	6970	7059	7149	7238	7328
4850		7417	7507	7596	7686	7776	7865	7955	8044	8134	8223
51		8313	8402	8492	8581	8671	8760	8850	8939	9029	9118
52	686	9208	9297	9387	9476	9566	9655	9745	9834	9924	0013
53		0103	0192	0282	0371	0461	0550	0640	0729	0819	0908
54		0998	1087	1177	1266	1356	1445	1535	1624	1713	1803
4855		1892	1982	2071	2161	2250	2340	2429	2518	2608	2697
56		2787	2876	2966	3055	3145	3234	3323	3413	3502	3592
57		3681	3770	3860	3949	4039	4128	4217	4307	4396	4486
58		4575	4665	4754	4843	4933	5022	5111	5201	5290	5380
59		5469	5558	5648	5737	5826	5916	6005	6095	6184	6273
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61		7256	7346	7435	7524	7614	7703	7792	7882	7971	8060
62		8150	8239	8328	8418	8507	8596	8685	8775	8864	8953
63		9043	9132	9221	9311	9400	9489	9578	9668	9757	9846
64	687	9936	0025	0114	0204	0293	0382	0471	0561	0650	0739
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66		1721	1810	1900	1989	2078	2167	2257	2346	2435	2524
67		2613	2703	2792	2881	2970	3060	3149	3238	3327	3416
68		3506	3595	3684	3773	3863	3952	4041	4130	4219	4309
69		4398	4487	4576	4665	4755	4844	4933	5022	5111	5200
4870		5290	5379	5468	5557	5646	5735	5825	5914	6003	6092
71		6181	6270	6360	6449	6538	6627	6716	6805	6895	6984
72		7073	7162	7251	7340	7429	7518	7608	7697	7786	7875
73		7964	8053	8142	8231	8321	8410	8499	8588	8677	8766
74		8855	8944	9033	9123	9212	9301	9390	9479	9568	9657
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76		0637	0726	0815	0904	0993	1082	1171	1260	1349	1439
77		1528	1617	1706	1795	1884	1973	2062	2151	2240	2329
78		2418	2507	2596	2685	2774	2863	2952	3041	3130	3219
79		3308	3397	3486	3575	3664	3753	3842	3931	4020	4109
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81		5088	5177	5266	5355	5444	5533	5622	5711	5800	5889
82		5978	6067	6156	6245	6334	6423	6511	6600	6689	6778
83		6867	6956	7045	7134	7223	7312	7401	7490	7579	7668
84		7757	7845	7934	8023	8112	8201	8290	8379	8468	8557
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86	689	9535	9624	9712	9801	9890	9979	0068	0157	0246	0335
87		0423	0512	0601	0690	0779	0868	0957	1045	1134	1223
88		1312	1401	1490	1579	1667	1756	1845	1934	2023	2112
89		2200	2289	2378	2467	2556	2645	2733	2822	2911	3000
4890		3089	3177	3266	3355	3444	3533	3621	3710	3799	3888
91		3977	4065	4154	4243	4332	4421	4509	4598	4687	4776
92		4864	4953	5042	5131	5220	5308	5397	5486	5575	5663
93		5752	5841	5930	6018	6107	6196	6285	6373	6462	6551
94		6640	6728	6817	6906	6995	7083	7172	7261	7350	7438
4895		7527	7616	7704	7793	7882	7971	8059	8148	8237	8325
96		8414	8503	8591	8680	8769	8858	8946	9035	9124	9212
97	690	9301	9390	9478	9567	9656	9744	9833	9922	0010	0099
98		0188	0276	0365	0454	0542	0631	0720	0808	0897	0986
99		1074	1163	1252	1340	1429	1518	1606	1695	1784	1872
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01	2847	2936	3024	3113	3201	3290	3379	3467	3556	3644	1 9
02	3733	3822	3910	3999	4087	4176	4265	4353	4442	4530	2 18
03	4619	4708	4796	4885	4973	5062	5150	5239	5327	5416	3 27
04	5505	5593	5682	5770	5859	5947	6036	6124	6213	6302	4 36
4905	6390	6479	6567	6656	6744	6833	6921	7010	7098	7187	5 45
05	7275	7364	7452	7541	7630	7718	7807	7895	7984	8072	6 53
07	8161	8249	8338	8426	8515	8603	8692	8780	8869	8957	7 62
08	9046	9134	9223	9311	9399	9488	9576	9665	9753	9842	8 71
09	691 9930	0019	0107	0196	0284	0373	0461	0550	0638	0726	9 80
4910	0815	0903	0992	1080	1169	1257	1346	1434	1522	1611	
11	1699	1788	1876	1965	2053	2141	2230	2318	2407	2495	
12	2584	2672	2760	2849	2937	3026	3114	3202	3291	3379	
13	3468	3556	3644	3733	3821	3910	3998	4086	4175	4263	
14	4352	4440	4528	4617	4705	4793	4882	4970	5058	5147	
4915	5235	5324	5412	5500	5589	5677	5765	5854	5942	6030	
15	6119	6207	6295	6384	6472	6560	6649	6737	6825	6914	
17	7002	7090	7179	7267	7355	7444	7532	7620	7709	7797	
18	7885	7974	8062	8150	8238	8327	8415	8503	8592	8680	
19	8768	8857	8945	9033	9121	9210	9298	9386	9474	9563	
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21	0534	0622	0710	0798	0887	0975	1063	1151	1240	1328	
22	1416	1504	1593	1681	1769	1857	1945	2034	2122	2210	
23	2298	2387	2475	2563	2651	2739	2828	2916	3004	3092	
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25	4944	5032	5120	5209	5297	5385	5473	5561	5649	5737	
26	5826	5914	6002	6090	6178	6266	6354	6443	6531	6619	
27	6707	6795	6883	6971	7059	7148	7236	7324	7412	7500	
28	7588	7676	7764	7853	7941	8029	8117	8205	8293	8381	
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31	693 9350	9438	9526	9614	9702	9790	9878	9967	0055	0143	
32	0231	0319	0407	0495	0583	0671	0759	0847	0935	1023	
33	1111	1199	1287	1375	1463	1551	1639	1727	1815	1903	
34	1991	2079	2167	2256	2344	2432	2520	2608	2696	2784	
4935	2872	2960	3048	3136	3224	3312	3400	3488	3576	3664	
35	3752	3839	3927	4015	4103	4191	4279	4367	4455	4543	
37	4631	4719	4807	4895	4983	5071	5159	5247	5335	5423	
38	5511	5599	5687	5775	5863	5951	6039	6126	6214	6302	
39	6390	6478	6566	6654	6742	6830	6918	7006	7094	7182	
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41	8149	8236	8324	8412	8500	8588	8676	8764	8852	8940	
42	9027	9115	9203	9291	9379	9467	9555	9643	9730	9818	
43	694 9906	9994	0082	0170	0258	0346	0433	0521	0609	0697	
44	0785	0872	0960	1048	1136	1224	1312	1399	1487	1575	
4945	1663	1751	1839	1926	2014	2102	2190	2278	2366	2453	
45	2541	2629	2717	2805	2892	2980	3068	3156	3244	3331	
46	3419	3507	3595	3682	3770	3858	3946	4034	4121	4209	
47	4297	4385	4472	4560	4648	4736	4824	4911	4999	5087	
48	5175	5262	5350	5438	5526	5613	5701	5789	5877	5964	
4950	6052	6140	6227	6315	6403	6491	6578	6666	6754	6842	
51	6929	7017	7105	7192	7280	7368	7456	7543	7631	7719	
52	7806	7894	7982	8069	8157	8245	8333	8420	8508	8596	
53	8683	8771	8859	8946	9034	9122	9209	9297	9385	9472	
54	695 9560	9648	9735	9823	9911	9998	0086	0174	0261	0349	
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55	1313	1401	1488	1576	1663	1751	1839	1926	2014	2102	
56	2189	2277	2364	2452	2540	2627	2715	2802	2890	2978	
57	3065	3153	3240	3328	3416	3503	3591	3678	3766	3854	
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62	6568	6655	6743	6830	6918	7005	7093	7180	7268	2 18	
63	7443	7530	7618	7705	7793	7880	7968	8055	8143	3 26	
64	8318	8405	8493	8580	8668	8755	8843	8930	9018	4 35	
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66	696 0067	0155	0242	0330	0417	0504	0592	0679	0767	6 53	
67	0342	1029	1116	1204	1291	1379	1466	1554	1641	7 62	
68	1816	1903	1991	2078	2165	2253	2340	2428	2515	8 70	
69	2690	2777	2865	2952	3040	3127	3214	3302	3389	9 79	
4970	3564	3651	3739	3826	3913	4001	4088	4176	4263	4350	
71	4438	4525	4612	4700	4787	4874	4962	5049	5137	5224	
72	5311	5399	5486	5573	5661	5748	5835	5923	6010	6097	
73	6185	6272	6359	6447	6534	6621	6709	6796	6883	6970	
74	7058	7145	7232	7320	7407	7494	7582	7669	7756	7844	
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76	8804	8891	8978	9066	9153	9240	9327	9415	9502	9589	
77	697 9676	9764	9851	9938	0025	0113	0200	0287	0374	0462	
78	0549	0636	0723	0811	0898	0985	1072	1160	1247	1334	
79	1421	1508	1596	1683	1770	1857	1945	2032	2119	2206	
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81	3165	3253	3340	3427	3514	3601	3689	3776	3863	3950	
82	4037	4124	4212	4299	4386	4473	4560	4647	4735	4822	
83	4909	4996	5083	5170	5257	5345	5432	5519	5606	5693	
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86	7523	7610	7697	7784	7871	7958	8045	8132	8220	8307	
87	8394	8481	8568	8655	8742	8829	8916	9003	9090	9177	
88	698 9264	9352	9439	9526	9613	9700	9787	9874	9961	0048	
89	0135	0222	0309	0396	0483	0570	0657	0744	0831	0918	
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91	1876	1963	2050	2137	2224	2311	2398	2485	2572	2659	
92	2746	2833	2920	3007	3094	3181	3268	3355	3442	3529	
93	3616	3703	3790	3877	3964	4051	4138	4224	4311	4398	
94	4485	4572	4659	4746	4833	4920	5007	5094	5181	5268	
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96	6224	6311	6398	6485	6572	6659	6746	6833	6920	7007	
97	7093	7180	7267	7354	7441	7528	7615	7702	7789	7876	
98	7963	8049	8136	8223	8310	8397	8484	8571	8658	8744	
99	8831	8918	9005	9092	9179	9266	9353	9439	9526	9613	
5000	699 9700	9787	9874	9961	0047	0134	0221	0308	0395	0482	
01	0569	0655	0742	0829	0916	1003	1090	1176	1263	1350	
02	1437	1524	1611	1697	1784	1871	1958	2045	2131	2218	
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06	4908	4995	5082	5169	5255	5342	5429	5516	5602	5689	
07	5776	5863	5949	6036	6123	6210	6296	6383	6470	6556	
08	6643	6730	6817	6903	6990	7077	7163	7250	7337	7424	
09	7510	7597	7684	7770	7857	7944	8031	8117	8204	8291	
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11	700 9244	9331	9417	9504	9591	9677	9764	9851	9937	0024	
12	0111	0197	0284	0371	0457	0544	0630	0717	0804	0890	
13	0977	1064	1150	1237	1324	1410	1497	1583	1670	1757	
14	1843	1930	2017	2103	2190	2276	2363	2450	2536	2623	
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16	3575	3662	3748	3835	3922	4008	4095	4181	4268	4354	
17	4441	4528	4614	4701	4787	4874	4960	5047	5133	5220	
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22		8767	8854	8940	9027	9113	9199	9286	9372	9459	9545
23	701	9632	9718	9805	9891	9978	0064	0151	0237	0323	0410
24		0496	0583	0669	0756	0842	0929	1015	1101	1188	1274
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26		2225	2311	2398	2484	2570	2657	2743	2830	2916	3002
27		3089	3175	3262	3348	3434	3521	3607	3694	3780	3866
28		3953	4039	4125	4212	4298	4385	4471	4557	4644	4730
29		4816	4903	4989	5075	5162	5248	5334	5421	5507	5594
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31		6543	6629	6716	6802	6888	6975	7061	7147	7234	7320
32		7406	7493	7579	7665	7752	7838	7924	8010	8097	8183
33		8269	8356	8442	8528	8614	8701	8787	8873	8959	9046
34		9132	9218	9305	9391	9477	9563	9650	9736	9822	9908
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36		0857	0943	1030	1116	1202	1288	1375	1461	1547	1633
37		1720	1806	1892	1978	2064	2151	2237	2323	2409	2495
38		2582	2668	2754	2840	2925	3013	3099	3185	3271	3357
39		3444	3530	3616	3702	3788	3874	3961	4047	4133	4219
5040		4305	4392	4478	4564	4650	4736	4822	4909	4995	5081
41		5167	5253	5339	5425	5512	5598	5684	5770	5856	5942
42		6028	6115	6201	6287	6373	6459	6545	6631	6717	6804
43		6890	6976	7062	7148	7234	7320	7406	7492	7579	7665
44		7751	7837	7923	8009	8095	8181	8267	8353	8440	8526
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46	703	9472	9559	9645	9731	9817	9903	9989	0075	0161	0247
47		0333	0419	0505	0591	0677	0763	0849	0935	1021	1107
48		1193	1279	1365	1452	1538	1624	1710	1796	1882	1968
49		2054	2140	2226	2312	2398	2484	2570	2656	2742	2828
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56		8071	8157	8242	8328	8414	8500	8586	8672	8758	8844
57		8930	9015	9101	9187	9273	9359	9445	9531	9617	9702
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67		7509	7595	7680	7766	7852	7938	8023	8109	8195	8280
68		8366	8452	8537	8623	8709	8795	8880	8966	9052	9137
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71		0936	1022	1107	1193	1279	1364	1450	1536	1621	1707
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73		2649	2734	2820	2905	2991	3077	3162	3248	3333	3419
74		3505	3590	3676	3761	3847	3933	4018	4104	4189	4275
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76		5216	5302	5387	5473	5558	5644	5729	5815	5901	5986
77		6072	6157	6243	6328	6414	6499	6585	6670	6756	6841
78		6927	7012	7098	7184	7269	7355	7440	7526	7611	7697
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03		8256	8341	8426	8511	8596	8681	8766	8851	8936	9022
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19		1851	1936	2021	2106	2191	2275	2360	2445	2530	2615
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36		6250	6335	6419	6504	6588	6673	6757	6842	6926	7011
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94	5019	5103	5187	5270	5354	5438	5521	5605	5688	5772	
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13	0877	0961	1044	1127	1210	1294	1377	1460	1544	1627	2 17
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28	3365	3449	3522	3605	3688	3771	3854	3937	4020	4103	
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67	5633	5716	5798	5881	5963	6045	6128	6210	6293	6375	
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77	3871	3953	4036	4118	4200	4282	4365	4447	4529	4612	
78	4694	4776	4858	4941	5023	5105	5188	5270	5352	5434	
79	5517	5599	5681	5763	5846	5928	6010	6092	6175	6257	
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81	7162	7244	7326	7408	7491	7573	7655	7737	7820	7902	
82	7984	8066	8148	8231	8313	8395	8477	8559	8642	8724	
83	8806	8888	8971	9053	9135	9217	9299	9382	9464	9546	
84	723 9628	9710	9792	9875	9957	0039	0121	0303	0286	0368	
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86	1272	1354	1436	1518	1600	1682	1765	1847	1929	2011	
87	2093	2175	2257	2340	2422	2504	2586	2668	2750	2832	
88	2914	2997	3079	3161	3243	3325	3407	3489	3571	3654	
89	3736	3818	3900	3982	4064	4146	4228	4310	4393	4475	
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91	5378	5460	5542	5624	5706	5788	5870	5952	6034	6116	
92	6198	6280	6362	6444	6527	6609	6691	6773	6855	6937	
93	7019	7101	7183	7265	7347	7429	7511	7593	7675	7757	
94	7839	7921	8003	8085	8167	8250	8332	8414	8496	8578	
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07	8491	8573	8655	8736	8818	8900	8982	9064	9146	9227	
08	725 9309	9391	9473	9555	9636	9718	9800	9882	9964	0045	
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13	3398	3480	3562	3643	3725	3807	3889	3970	4052	4134	
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5315	5033	5114	5196	5278	5360	5441	5523	5605	5686	5768	
16	5850	5931	6013	6095	6176	6258	6340	6422	6503	6585	
17	6667	6748	6830	6912	6993	7075	7157	7238	7320	7402	
18	7483	7565	7647	7728	7810	7892	7973	8055	8137	8218	
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22	0749	0830	0912	0994	1075	1157	1238	1320	1401	1483	2 16
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27	4827	4908	4990	5072	5153	5235	5316	5398	5479	5561	7 57
28	5642	5724	5805	5887	5968	6050	6131	6213	6294	6376	8 66
29	6457	6539	6620	6702	6783	6865	6946	7028	7109	7191	9 74
5330	7272	7354	7435	7517	7598	7679	7761	7842	7924	8005	
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33	727 9716	9797	9879	9960	0042	0123	0204	0286	0367	0449	
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43	7852	7933	8014	8095	8177	8258	8339	8421	8502	8583	
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5345	728 9477	9558	9640	9721	9802	9883	9965	0046	0127	0208	
46	0290	0371	0452	0533	0614	0696	0777	0858	0939	1021	
47	1102	1183	1264	1346	1427	1508	1589	1670	1752	1833	
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52	5161	5242	5323	5404	5486	5567	5648	5729	5810	5891	
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59	0838	0919	1000	1081	1162	1243	1324	1405	1486	1567	
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67	7316	7397	7478	7559	7640	7721	7802	7883	7964	8045	
68	8145	8206	8287	8368	8449	8530	8611	8692	8773	8854	
69	8934	9015	9096	9177	9258	9338	9419	9500	9581	9662	
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73	2168	2249	2330	2411	2492	2573	2654	2734	2815	2896	
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77	5400	5481	5562	5643	5723	5804	5885	5966	6046	6127	
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82	731 9437	9518	9598	9679	9760	9840	9921	0002	0082	0163	2 16
83	0244	0324	0405	0485	0567	0647	0728	0809	0889	0970	3 24
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5385	1857	1938	2018	2099	2180	2260	2341	2422	2502	2583	5 41
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87	3470	3550	3631	3712	3792	3873	3953	4034	4115	4195	7 57
88	4276	4356	4437	4518	4598	4679	4759	4840	4921	5001	8 65
89	5082	5162	5243	5324	5404	5485	5565	5646	5727	5807	9 73
5390	5888	5968	6049	6129	6210	6291	6371	6452	6532	6613	
91	6693	6774	6854	6935	7016	7096	7177	7257	7338	7418	
92	7499	7579	7660	7740	7821	7902	7982	8063	8143	8224	
93	8304	8385	8465	8546	8626	8707	8787	8868	8948	9029	
94	9109	9190	9270	9351	9431	9512	9592	9673	9753	9834	
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97	1524	1605	1685	1766	1846	1927	2007	2087	2168	2248	
98	2329	2409	2490	2570	2651	2731	2812	2892	2972	3053	
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03	6360	6440	6520	6601	6681	6762	6842	6922	6993	7073	
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08	0367	0447	0527	0608	0688	0768	0849	0929	1009	1090	
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17	7588	7669	7749	7829	7909	7989	8069	8150	8230	8310	
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23	2396	2476	2556	2636	2716	2796	2877	2957	3037	3117	
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26	4798	4878	4958	5038	5118	5198	5278	5358	5438	5518	
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33	0377	0477	0557	0637	0717	0797	0877	0957	1036	1116	1 8
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37	3593	3673	3753	3833	3913	3993	4073	4152	4232	4312	5 40
38	4392	4472	4552	4632	4711	4791	4871	4951	5031	5111	6 48
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03	5905	6074	6153	6232	6311	6390	6469	6548	6626	6705	3
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06	8362	8441	8520	8599	8678	8756	8835	8914	8993	9072	6
07	9151	9230	9308	9387	9466	9545	9624	9703	9782	9860	7
08	9939	0018	0097	0176	0255	0334	0412	0491	0570	0649	8
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12	3092	3171	3250	3328	3407	3486	3565	3644	3722	3801	
13	3880	3959	4037	4116	4195	4274	4353	4431	4510	4589	
14	4668	4746	4825	4904	4983	5061	5140	5219	5298	5376	
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16	6243	6321	6400	6479	6557	6636	6715	6794	6872	6951	
17	7030	7109	7187	7266	7345	7423	7502	7581	7660	7738	
18	7817	7896	7974	8053	8132	8210	8289	8368	8447	8525	
19	8604	8683	8761	8840	8919	8997	9076	9155	9233	9312	
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22	0964	1043	1121	1200	1279	1357	1436	1515	1593	1672	
23	1750	1829	1908	1986	2065	2144	2222	2301	2379	2458	
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26	4109	4187	4266	4345	4423	4502	4580	4659	4737	4816	
27	4895	4973	5052	5130	5209	5288	5366	5445	5523	5602	
28	5680	5759	5837	5916	5995	6073	6152	6230	6309	6387	
29	6466	6544	6623	6702	6780	6859	6937	7016	7094	7173	
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33	9607	9685	9764	9842	9921	9999	0078	0156	0235	0313	
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36	1961	2039	2118	2196	2275	2353	2431	2510	2588	2667	
37	2745	2824	2902	2981	3059	3137	3216	3294	3373	3451	
38	3530	3608	3686	3765	3843	3922	4000	4078	4157	4235	
39	4314	4392	4470	4549	4627	4706	4784	4862	4941	5019	
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41	5882	5960	6038	6117	6195	6273	6352	6430	6508	6587	
42	6665	6744	6822	6900	6979	7057	7135	7214	7292	7370	
43	7449	7527	7605	7684	7762	7841	7919	7997	8076	8154	
44	8232	8311	8389	8467	8546	8624	8702	8781	8859	8937	
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46	9799	9877	9955	0034	0112	0190	0268	0347	0425	0503	
47	744 0582	0660	0738	0817	0895	0973	1051	1130	1208	1286	
48	1365	1443	1521	1599	1678	1756	1834	1912	1991	2069	
49	2147	2225	2304	2382	2460	2539	2617	2695	2773	2852	
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52	4495	4573	4651	4729	4807	4886	4964	5042	5120	5199	
53	5277	5355	5433	5511	5590	5668	5746	5824	5902	5981	
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59	745 9947	0045	0123	0201	0279	0357	0435	0514	0592	0670	
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61		1529	1607	1685	1763	1841	1919	1995	2076	2154	2232
62		2310	2388	2466	2544	2622	2700	2778	2856	2934	3013
63		3091	3169	3247	3325	3403	3481	3559	3637	3715	3793
64		3871	3949	4027	4105	4183	4261	4340	4418	4496	4574
5565		4652	4730	4808	4886	4964	5042	5120	5198	5276	5354
66		5432	5510	5588	5666	5744	5822	5900	5978	6056	6134
67		6212	6290	6368	6446	6524	6602	6680	6758	6836	6914
68		6992	7070	7148	7226	7304	7382	7460	7538	7616	7694
69		7772	7850	7928	8006	8084	8162	8240	8318	8396	8474
5570		8552	8630	8708	8786	8864	8942	9020	9098	9176	9254
71	746	9332	9410	9487	9565	9643	9721	9799	9877	9955	0033
72		0111	0189	0267	0345	0423	0501	0579	0657	0735	0813
73		0890	0968	1046	1124	1202	1280	1358	1436	1514	1592
74		1670	1748	1825	1903	1981	2059	2137	2215	2293	2371
5575		2449	2527	2605	2682	2760	2838	2916	2994	3072	3150
76		3228	3306	3383	3461	3539	3617	3695	3773	3851	3929
77		4006	4084	4162	4240	4318	4396	4474	4552	4629	4707
78		4785	4863	4941	5019	5097	5174	5252	5330	5408	5486
79		5564	5641	5719	5797	5875	5953	6031	6108	6186	6264
5580		6342	6420	6498	6575	6653	6731	6809	6887	6965	7042
81		7120	7198	7276	7354	7431	7509	7587	7665	7743	7821
82		7908	7976	8054	8132	8210	8287	8365	8443	8521	8598
83		8676	8754	8832	8910	8987	9065	9143	9221	9299	9376
84	747	9454	9532	9610	9687	9765	9843	9921	9998	0076	0154
5585		0232	0310	0387	0465	0543	0621	0698	0776	0854	0932
86		1009	1087	1165	1243	1320	1398	1476	1554	1631	1709
87		1787	1864	1942	2020	2098	2175	2253	2331	2409	2486
88		2564	2642	2719	2797	2875	2953	3030	3108	3186	3263
89		3341	3419	3497	3574	3652	3730	3807	3885	3963	4040
5590		4118	4196	4273	4351	4429	4507	4584	4662	4740	4817
91		4895	4973	5050	5128	5206	5283	5361	5439	5516	5594
92		5672	5749	5827	5905	5982	6060	6138	6215	6293	6371
93		6448	6526	6603	6681	6759	6836	6914	6992	7069	7147
94		7225	7302	7380	7458	7535	7613	7690	7768	7846	7923
5595		8001	8079	8156	8234	8311	8389	8467	8544	8622	8699
96		8777	8855	8932	9010	9087	9165	9243	9320	9398	9475
97	748	9553	9631	9708	9786	9863	9941	0019	0096	0174	0251
98		0329	0407	0484	0562	0639	0717	0794	0872	0950	1027
99		1105	1182	1260	1337	1415	1492	1570	1648	1725	1803
5600		1880	1958	2035	2113	2190	2268	2346	2423	2501	2578
01		2656	2733	2811	2888	2966	3043	3121	3198	3276	3354
02		3431	3509	3586	3664	3741	3819	3896	3974	4051	4129
03		4206	4284	4361	4439	4516	4594	4671	4749	4826	4904
04		4981	5059	5136	5214	5291	5369	5446	5524	5601	5679
5605		5756	5834	5911	5989	6066	6144	6221	6299	6376	6453
06		6531	6608	6686	6763	6841	6918	6996	7073	7151	7228
07		7306	7383	7460	7538	7615	7693	7770	7848	7925	8003
08		8080	8157	8235	8312	8390	8467	8545	8622	8700	8777
09		8854	8932	9009	9087	9164	9242	9319	9396	9474	9551
5610	749	9629	9706	9783	9861	9938	0016	0093	0170	0248	0325
11		0403	0480	0557	0635	0712	0790	0867	0944	1022	1099
12		1177	1254	1331	1409	1485	1564	1641	1718	1795	1873
13		1950	2028	2105	2183	2260	2337	2415	2492	2569	2647
14		2724	2801	2879	2956	3034	3111	3188	3266	3343	3420
5615		3498	3575	3652	3730	3807	3884	3962	4039	4116	4194
16		4271	4348	4426	4503	4580	4658	4735	4812	4890	4967
17		5044	5122	5199	5276	5353	5431	5508	5585	5663	5740
18		5817	5895	5972	6049	6127	6204	6281	6358	6436	6513
19		6590	6668	6745	6822	6899	6977	7054	7131	7209	7286
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21		8136	8213	8290	8368	8445		8522	8599	8677	8754
22		8908	8986	9063	9140	9217		9295	9372	9449	9526
23	750	9681	9758	9835	9913	9990		0067	0144	0221	0299
24		0453	0530	0608	0685	0762		0839	0916	0994	1071
5625		1225	1302	1380	1457	1534	1611	1688	1766	1843	1920
26		1997	2074	2152	2229	2306	2383	2460	2538	2615	2692
27		2769	2846	2924	3001	3078	3155	3232	3309	3387	3464
28		3541	3618	3695	3772	3850	3927	4004	4081	4158	4235
29		4312	4390	4467	4544	4621	4698	4775	4853	4930	5007
5630		5084	5161	5238	5315	5392	5470	5547	5624	5701	5778
31		5855	5932	6010	6087	6164	6241	6318	6395	6472	6549
32		6626	6704	6781	6858	6935	7012	7089	7166	7243	7320
33		7398	7475	7552	7629	7706	7783	7860	7937	8014	8091
34		8168	8246	8323	8400	8477	8554	8631	8708	8785	8862
5635		8939	9016	9093	9170	9247	9325	9402	9479	9556	9633
36	751	9710	9787	9864	9941	0018	0095	0172	0249	0326	0403
37		0480	0557	0634	0711	0788	0865	0943	1020	1097	1174
38		1251	1328	1405	1482	1559	1636	1713	1790	1867	1944
39		2021	2098	2175	2252	2329	2406	2483	2560	2637	2714
5640		2791	2868	2945	3022	3099	3176	3253	3330	3407	3484
41		3561	3638	3715	3792	3869	3946	4023	4100	4177	4254
42		4331	4408	4485	4562	4639	4716	4793	4870	4947	5024
43		5101	5177	5254	5331	5408	5485	5562	5639	5716	5793
44		5870	5947	6024	6101	6178	6255	6332	6409	6486	6563
5645		6639	6716	6793	6870	6947	7024	7101	7178	7255	7332
46		7403	7480	7557	7634	7711	7788	7865	7942	8024	8101
47		8178	8255	8332	8409	8485	8562	8639	8716	8793	8870
48		8947	9024	9101	9178	9254	9331	9408	9485	9562	9639
49	752	9716	9793	9870	9946	0023	0100	0177	0254	0331	0408
5650		0484	0561	0638	0715	0792	0869	0946	1023	1099	1176
51		1253	1330	1407	1484	1560	1637	1714	1791	1868	1945
52		2022	2098	2175	2252	2329	2406	2483	2560	2636	2713
53		2790	2867	2944	3020	3097	3174	3251	3328	3404	3481
54		3558	3635	3712	3788	3865	3942	4019	4096	4172	4249
5655		4326	4403	4480	4556	4633	4710	4787	4864	4940	5017
56		5094	5171	5248	5324	5401	5478	5555	5631	5708	5785
57		5862	5939	6015	6092	6169	6246	6322	6399	6476	6553
58		6629	6706	6783	6860	6936	7013	7090	7167	7243	7320
59		7397	7474	7550	7627	7704	7781	7857	7934	8011	8088
5660		8164	8241	8318	8394	8471	8548	8625	8701	8778	8855
61		8932	9008	9085	9162	9238	9315	9392	9469	9545	9622
62	753	9699	9775	9852	9929	0005	0082	0159	0236	0312	0389
63		0466	0542	0619	0696	0772	0849	0926	1002	1079	1156
64		1232	1309	1386	1462	1539	1616	1692	1769	1846	1922
5665		1999	2076	2152	2229	2306	2382	2459	2536	2612	2689
66		2766	2842	2919	2996	3072	3149	3226	3302	3379	3455
67		3532	3609	3685	3762	3839	3915	3992	4069	4145	4222
68		4298	4375	4452	4528	4605	4682	4758	4835	4911	4988
69		5065	5141	5218	5294	5371	5448	5524	5601	5677	5754
5670		5831	5907	5984	6060	6137	6214	6290	6367	6443	6520
71		6596	6673	6750	6826	6903	6979	7056	7133	7209	7286
72		7362	7439	7515	7592	7668	7745	7822	7898	7975	8051
73		8128	8204	8281	8357	8434	8511	8587	8664	8740	8817
74		8893	8970	9046	9123	9199	9276	9353	9429	9506	9582
5675		9659	9735	9812	9888	9965	0041	0118	0194	0271	0347
76	754	0424	0500	0577	0653	0730	0806	0883	0959	1036	1112
77		1189	1265	1342	1418	1495	1571	1648	1724	1801	1877
78		1954	2030	2107	2183	2260	2336	2413	2489	2566	2642
79		2719	2795	2872	2948	3025	3101	3178	3254	3330	3407
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81		4248	4324	4401	4477	4554	4630	4707	4783	4859	4936
82		5012	5089	5165	5242	5318	5394	5471	5547	5624	5700
83		5777	5853	5929	6006	6082	6159	6235	6311	6388	6464
84		6541	6617	6694	6770	6846	6923	6999	7076	7152	7228
5685		7305	7381	7457	7534	7610	7687	7763	7839	7916	7992
86		8069	8145	8221	8298	8374	8450	8527	8603	8680	8756
87		8832	8909	8985	9061	9138	9214	9290	9367	9443	9520
88	755	9596	9672	9749	9825	9901	9978	0054	0130	0207	0283
89		0359	0436	0512	0588	0665	0741	0817	0894	0970	1046
5690		1123	1199	1275	1352	1428	1504	1581	1657	1733	1810
91		1886	1962	2038	2115	2191	2267	2344	2420	2496	2573
92		2649	2725	2802	2878	2954	3030	3107	3183	3259	3336
93		3412	3488	3564	3641	3717	3793	3870	3946	4022	4098
94		4175	4251	4327	4403	4480	4556	4632	4709	4785	4861
5695		4937	5014	5090	5166	5242	5319	5395	5471	5547	5624
96		5700	5776	5852	5929	6005	6081	6157	6233	6310	6386
97		6462	6538	6615	6691	6767	6843	6920	6996	7072	7148
98		7224	7301	7377	7453	7529	7606	7682	7758	7834	7910
99		7987	8063	8139	8215	8291	8368	8444	8520	8596	8672
5700		8749	8825	8901	8977	9053	9130	9206	9282	9358	9434
01	756	9510	9587	9663	9739	9815	9891	9967	0044	0120	0196
02		0272	0348	0424	0501	0577	0653	0729	0805	0881	0958
03		1034	1110	1186	1262	1338	1414	1491	1567	1643	1719
04		1795	1871	1947	2024	2100	2176	2252	2328	2404	2480
5705		2556	2633	2709	2785	2861	2937	3013	3089	3165	3242
06		3318	3394	3470	3546	3622	3698	3774	3850	3927	4003
07		4079	4155	4231	4307	4383	4459	4535	4611	4687	4764
08		4840	4916	4992	5068	5144	5220	5296	5372	5448	5524
09		5600	5677	5753	5829	5905	5981	6057	6133	6209	6285
5710		6361	6437	6513	6589	6665	6741	6817	6893	6970	7046
11		7122	7198	7274	7350	7426	7502	7578	7654	7730	7806
12		7882	7958	8034	8110	8186	8262	8338	8414	8490	8566
13		8642	8718	8794	8870	8946	9022	9098	9174	9250	9326
14	757	9402	9478	9554	9630	9706	9782	9858	9934	0010	0086
5715		0162	0238	0314	0390	0466	0542	0618	0694	0770	0846
16		0922	0998	1074	1150	1226	1302	1378	1454	1530	1606
17		1682	1758	1834	1910	1986	2062	2138	2214	2290	2366
18		2442	2517	2593	2669	2745	2821	2897	2973	3049	3125
19		3201	3277	3353	3429	3505	3581	3657	3733	3808	3884
5720		3960	4036	4112	4188	4264	4340	4416	4492	4568	4644
21		4719	4795	4871	4947	5023	5099	5175	5251	5327	5403
22		5479	5554	5630	5706	5782	5858	5934	6010	6086	6162
23		6237	6313	6389	6465	6541	6617	6693	6769	6845	6920
24		6996	7072	7148	7224	7300	7376	7451	7527	7603	7679
5725		7755	7831	7907	7982	8058	8134	8210	8286	8362	8438
26		8513	8589	8665	8741	8817	8893	8968	9044	9120	9196
27		9272	9348	9423	9499	9575	9651	9727	9803	9878	9954
28	758	0030	0106	0182	0258	0333	0409	0485	0561	0637	0712
29		0788	0864	0940	1016	1091	1167	1243	1319	1395	1470
5730		1546	1622	1698	1774	1849	1925	2001	2077	2153	2228
31		2304	2380	2456	2531	2607	2683	2759	2835	2910	2986
32		3062	3138	3213	3289	3365	3441	3516	3592	3668	3744
33		3819	3895	3971	4047	4122	4198	4274	4350	4425	4501
34		4577	4653	4728	4804	4880	4956	5031	5107	5183	5258
5735		5334	5410	5486	5561	5637	5713	5789	5864	5940	6016
36		6091	6167	6243	6319	6394	6470	6546	6621	6697	6773
37		6843	6924	7000	7076	7151	7227	7303	7378	7454	7530
38		7605	7681	7757	7832	7908	7984	8060	8135	8211	8287
39		8362	8438	8514	8589	8665	8741	8816	8892	8968	9043
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62	0458	0532	0606	0680	0754	0829	0903	0977	1051	1125	2 15
63	1199	1273	1347	1421	1495	1569	1643	1717	1791	1866	3 22
64	1940	2014	2088	2162	2236	2310	2384	2458	2532	2606	4 30
5855	2680	2754	2828	2902	2976	3050	3124	3198	3273	3347	5 37
66	3421	3495	3569	3643	3717	3791	3865	3939	4013	4087	6 44
67	4161	4235	4309	4383	4457	4531	4605	4679	4753	4827	7 52
68	4901	4975	5049	5123	5197	5271	5345	5419	5493	5567	8 59
69	5641	5715	5789	5863	5937	6011	6085	6159	6233	6307	9 67
5870	6381	6455	6529	6603	6677	6751	6825	6899	6973	7047	
71	7121	7195	7269	7343	7417	7491	7565	7639	7713	7787	
72	7860	7934	8008	8082	8156	8230	8304	8378	8452	8526	
73	8600	8674	8748	8822	8896	8970	9044	9118	9192	9266	
74	9339	9413	9487	9561	9635	9709	9783	9857	9931	0005	
5875	0079	0153	0227	0300	0374	0448	0522	0596	0670	0744	
76	0818	0892	0966	1040	1114	1187	1261	1335	1409	1483	
77	1557	1631	1705	1779	1852	1926	2000	2074	2148	2222	
78	2296	2370	2444	2517	2591	2665	2739	2813	2887	2961	
79	3035	3108	3182	3256	3330	3404	3478	3552	3626	3699	
5880	3773	3847	3921	3995	4069	4143	4216	4290	4364	4438	
81	4512	4586	4659	4733	4807	4881	4955	5029	5103	5177	
82	5250	5324	5398	5472	5546	5619	5693	5767	5841	5915	
83	5988	6062	6136	6210	6284	6358	6431	6505	6579	6653	
84	6727	6800	6874	6948	7022	7096	7169	7243	7317	7391	
5885	7465	7538	7612	7686	7760	7834	7907	7981	8055	8129	
86	8203	8276	8350	8424	8498	8571	8645	8719	8793	8867	
87	8940	9014	9088	9162	9235	9309	9383	9457	9530	9604	
88	9678	9752	9826	9899	9973	0047	0121	0194	0268	0342	
89	0416	0489	0563	0637	0711	0784	0858	0932	1005	1079	
5890	1153	1227	1300	1374	1448	1522	1595	1669	1743	1817	
91	1890	1964	2038	2111	2185	2259	2333	2406	2480	2554	
92	2627	2701	2775	2849	2922	2996	3070	3143	3217	3291	
93	3364	3438	3512	3585	3659	3733	3807	3880	3954	4028	
94	4101	4175	4249	4322	4396	4470	4543	4617	4691	4764	
5895	4838	4912	4985	5059	5133	5206	5280	5354	5427	5501	
96	5575	5648	5722	5796	5869	5943	6017	6090	6164	6238	
97	6311	6385	6459	6532	6606	6679	6753	6827	6900	6974	
98	7048	7121	7195	7269	7342	7416	7489	7563	7637	7710	
99	7784	7858	7931	8005	8078	8152	8226	8299	8373	8447	
5900	8520	8594	8667	8741	8815	8888	8962	9035	9109	9183	
01	9256	9330	9403	9477	9551	9624	9698	9771	9845	9918	
02	771	9992	0066	0139	0213	0286	0360	0434	0507	0581	
03	0728	0801	0875	0949	1022	1096	1169	1243	1316	1390	
04	1463	1537	1611	1684	1758	1831	1905	1978	2052	2125	
5905	2199	2273	2346	2420	2493	2567	2640	2714	2787	2861	
06	2934	3008	3081	3155	3229	3302	3375	3449	3523	3596	
07	3670	3743	3817	3890	3964	4037	4111	4184	4258	4331	
08	4405	4478	4552	4625	4699	4772	4846	4919	4993	5066	
09	5140	5213	5287	5360	5434	5507	5581	5654	5728	5801	
5910	5875	5948	6022	6095	6169	6242	6316	6389	6463	6536	
11	6610	6683	6757	6830	6903	6977	7050	7124	7197	7271	
12	7344	7418	7491	7565	7638	7712	7785	7858	7932	8005	
13	8079	8152	8226	8299	8373	8446	8519	8593	8666	8740	
14	8813	8887	8960	9034	9107	9180	9254	9327	9401	9474	
5915	9547	9621	9694	9768	9841	9915	9988	0061	0135	0208	
16	0282	0355	0428	0502	0575	0649	0722	0795	0869	0942	
17	1016	1089	1162	1236	1309	1383	1456	1529	1603	1676	
18	1750	1823	1896	1970	2043	2117	2190	2263	2337	2410	
19	2483	2557	2630	2704	2777	2850	2924	2997	3070	3144	
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5920	772	3217	3290	3364	3437	3510	3584	3657	3731	3804	3877	73
21		3951	4024	4097	4171	4244	4317	4391	4464	4537	4611	1 7
22		4684	4757	4831	4904	4977	5051	5124	5197	5271	5344	2 15
23		5417	5491	5564	5637	5711	5784	5857	5931	6004	6077	3 22
24		6150	6224	6297	6370	6444	6517	6590	6664	6737	6810	4 29
5925		6884	6957	7030	7103	7177	7250	7323	7397	7470	7543	5 37
26		7616	7690	7763	7836	7910	7983	8056	8129	8203	8276	6 44
27		8349	8423	8496	8569	8642	8716	8789	8862	8935	9009	7 51
28		9082	9155	9228	9302	9375	9448	9521	9595	9668	9741	8 58
29	773	9815	9888	9961	0034	0107	0181	0254	0327	0400	0474	9 66
5930		0547	0620	0693	0767	0840	0913	0986	1060	1133	1206	
31		1279	1352	1426	1499	1572	1645	1719	1792	1865	1938	
32		2011	2085	2158	2231	2304	2377	2451	2524	2597	2670	
33		2743	2817	2890	2963	3036	3109	3183	3256	3329	3402	
34		3475	3549	3622	3695	3768	3841	3915	3988	4061	4134	
5935		4207	4280	4354	4427	4500	4573	4646	4719	4793	4866	
36		4939	5012	5085	5158	5232	5305	5378	5451	5524	5597	
37		5670	5744	5817	5890	5963	6036	6109	6183	6256	6329	
38		6402	6475	6548	6621	6694	6768	6841	6914	6987	7060	
39		7133	7206	7280	7353	7426	7499	7572	7645	7718	7791	
5940		7864	7938	8011	8084	8157	8230	8303	8376	8449	8522	
41		8595	8669	8742	8815	8888	8961	9034	9107	9180	9253	
42		9326	9400	9473	9546	9619	9692	9765	9838	9911	9984	
43	774	0057	0130	0203	0277	0350	0423	0496	0569	0642	0715	
44		0788	0861	0934	1007	1080	1153	1226	1299	1372	1446	
5945		1519	1592	1665	1738	1811	1884	1957	2030	2103	2176	
46		2249	2322	2395	2468	2541	2614	2687	2760	2833	2906	
47		2979	3052	3125	3198	3271	3345	3418	3491	3564	3637	
48		3710	3783	3856	3929	4002	4075	4148	4221	4294	4367	
49		4440	4513	4586	4659	4732	4805	4878	4951	5024	5097	
5950		5170	5243	5316	5389	5462	5535	5608	5681	5754	5827	
51		5900	5972	6045	6118	6191	6264	6337	6410	6483	6556	
52		6629	6702	6775	6848	6921	6994	7067	7140	7213	7286	
53		7359	7432	7505	7578	7651	7724	7797	7869	7942	8015	
54		8088	8161	8234	8307	8380	8453	8526	8599	8672	8745	
5955		8818	8891	8964	9036	9109	9182	9255	9328	9401	9474	
56	775	9547	9620	9693	9766	9839	9911	9984	0057	0130	0203	
57		0276	0349	0422	0495	0568	0641	0713	0786	0859	0932	
58		1005	1078	1151	1224	1297	1369	1442	1515	1588	1661	
59		1734	1807	1880	1952	2025	2098	2171	2244	2317	2390	
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61		3191	3264	3337	3410	3483	3555	3628	3701	3774	3847	
62		3920	3993	4065	4138	4211	4284	4357	4430	4502	4575	
63		4648	4721	4794	4867	4939	5012	5085	5158	5231	5304	
64		5376	5449	5522	5595	5668	5740	5813	5886	5959	6032	
5965		6104	6177	6250	6323	6396	6469	6541	6614	6687	6760	
66		6832	6905	6978	7051	7124	7196	7269	7342	7415	7488	
67		7560	7633	7706	7779	7851	7924	7997	8070	8143	8215	
68		8288	8361	8434	8506	8579	8652	8725	8798	8870	8943	
69		9016	9089	9161	9234	9307	9380	9452	9525	9598	9671	
5970	776	9743	9816	9889	9962	0034	0107	0180	0253	0325	0398	
71		0471	0543	0616	0689	0762	0834	0907	0980	1053	1125	
72		1198	1271	1343	1416	1489	1562	1634	1707	1780	1852	
73		1925	1998	2071	2143	2216	2289	2361	2434	2507	2579	
74		2652	2725	2798	2870	2943	3016	3088	3161	3234	3306	
5975		3379	3452	3524	3597	3670	3743	3815	3888	3961	4033	
76		4106	4179	4251	4324	4397	4469	4542	4615	4687	4760	
77		4833	4905	4978	5051	5123	5196	5269	5341	5414	5486	
78		5559	5632	5704	5777	5850	5922	5995	6068	6140	6213	
79		6286	6358	6431	6503	6576	6649	6721	6794	6867	6939	
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Log. 776.

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81		7738	7811	7883	7956	8028	8101	8174	8246	8319	8391
		8464	8537	8609	8682	8754	8827	8900	8972	9045	9117
		9190	9263	9335	9408	9480	9553	9626	9698	9771	9843
	777	9916	9988	0061	0134	0206	0279	0351	0424	0496	0569
5985		0642	0714	0787	0859	0932	1004	1077	1149	1222	1295
86		1367	1440	1512	1585	1657	1730	1802	1875	1947	2020
87		2093	2165	2238	2310	2383	2455	2528	2600	2673	2745
88		2818	2890	2963	3035	3108	3181	3253	3326	3398	3471
89		3543	3616	3688	3761	3833	3906	3978	4051	4123	4196
5990		4341	4413	4486	4558	4631	4703	4776	4848	4921	
91		5056	5138	5211	5283	5356	5428	5501	5573	5646	
92		5791	5863	5935	6008	6080	6153	6225	6298	6370	
93		6444	6516	6588	6660	6733	6805	6878	6950	7022	
94		7100	7172	7245	7317	7389	7462	7534	7607	7679	
95		7800	7872	7945	8017	8089	8162	8234	8307	8379	
96		8480	8552	8625	8697	8769	8842	8914	8987	9059	
97		9160	9232	9305	9377	9449	9522	9594	9667	9739	
98		9810	9882	9955	0027	0099	0172	0244	0317	0389	
99		0460	0532	0605	0677	0749	0822	0894	0967	1039	
6000		1100	1172	1245	1317	1389	1462	1534	1607	1679	
01		1750	1822	1895	1967	2039	2112	2184	2257	2329	
02		2400	2472	2545	2617	2689	2762	2834	2907	2979	
03		3050	3122	3195	3267	3339	3412	3484	3557	3629	
04		3700	3772	3845	3917	3989	4062	4134	4207	4279	
6005		4350	4422	4495	4567	4639	4712	4784	4857	4929	
06		5000	5072	5145	5217	5289	5362	5434	5507	5579	
07		5650	5722	5795	5867	5939	6012	6084	6157	6229	
08		6300	6372	6445	6517	6589	6662	6734	6807	6879	
09		6950	7022	7095	7167	7239	7312	7384	7457	7529	
6010		7600	7672	7745	7817	7889	7962	8034	8107	8179	
11		8250	8322	8395	8467	8539	8612	8684	8757	8829	
12		8900	8972	9045	9117	9189	9262	9334	9407	9479	
13		9550	9622	9695	9767	9839	9912	9984	0057	0129	
14		0200	0272	0345	0417	0489	0562	0634	0707	0779	
6015		0850	0922	0995	1067	1139	1212	1284	1357	1429	
16		1500	1572	1645	1717	1789	1862	1934	2007	2079	
17		2150	2222	2295	2367	2439	2512	2584	2657	2729	
18		2800	2872	2945	3017	3089	3162	3234	3307	3379	
19		3450	3522	3595	3667	3739	3812	3884	3957	4029	
6020		4100	4172	4245	4317	4389	4462	4534	4607	4679	
21		4750	4822	4895	4967	5039	5112	5184	5257	5329	
22		5400	5472	5545	5617	5689	5762	5834	5907	5979	
23		6050	6122	6195	6267	6339	6412	6484	6557	6629	
24		6700	6772	6845	6917	6989	7062	7134	7207	7279	
6025		7350	7422	7495	7567	7639	7712	7784	7857	7929	
26	780	8050	8122	8195	8267	8339	8412	8484	8557	8629	
27		8700	8772	8845	8917	8989	9062	9134	9207	9279	
28		9350	9422	9495	9567	9639	9712	9784	9857	9929	
29		0000	0072	0145	0217	0289	0362	0434	0507	0579	
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31		1300	1372	1445	1517	1589	1662	1734	1807	1879	
32		1950	2022	2095	2167	2239	2312	2384	2457	2529	
33		2600	2672	2745	2817	2889	2962	3034	3107	3179	
34		3250	3322	3395	3467	3539	3612	3684	3757	3829	
6035		3900	3972	4045	4117	4189	4262	4334	4407	4479	
36		4550	4622	4695	4767	4839	4912	4984	5057	5129	
37		5200	5272	5345	5417	5489	5562	5634	5707	5779	
38		5850	5922	5995	6067	6139	6212	6284	6357	6429	
39		6500	6572	6645	6717	6789	6862	6934	7007	7079	
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6040	781 0369	0441	0513	0585	0657	0729	0801	0873	0945	1016	
41	1088	1160	1232	1304	1376	1448	1520	1592	1663	1735	
42	1807	1879	1951	2023	2095	2167	2238	2310	2382	2454	
43	2526	2598	2670	2742	2813	2885	2957	3029	3101	3173	
44	3245	3316	3388	3460	3532	3604	3676	3748	3819	3891	
6045	3963	4035	4107	4179	4250	4322	4394	4466	4538	4610	
46	4681	4753	4825	4897	4969	5041	5112	5184	5256	5328	
47	5400	5472	5543	5615	5687	5759	5831	5902	5974	6046	
48	6118	6190	6261	6333	6405	6477	6549	6620	6692	6764	
49	6836	6908	6979	7051	7123	7195	7267	7338	7410	7482	
6050	7554	7626	7697	7769	7841	7913	7984	8056	8128	8200	
51	8272	8343	8415	8487	8559	8630	8702	8774	8846	8917	
52	8989	9061	9133	9204	9276	9348	9420	9491	9563	9635	
53	782 9707	9778	9850	9922	9994	0065	0137	0209	0281	0352	
54	0424	0495	0568	0639	0711	0783	0855	0926	0998	1070	
6055	1141	1213	1285	1357	1428	1500	1572	1644	1715	1787	
56	1859	1930	2002	2074	2146	2217	2289	2361	2432	2504	
57	2576	2647	2719	2791	2863	2934	3006	3078	3149	3221	
58	3293	3364	3436	3508	3579	3651	3723	3794	3866	3938	
59	4010	4081	4153	4225	4296	4368	4440	4511	4583	4655	
6060	4726	4798	4870	4941	5013	5085	5156	5228	5300	5371	
61	5443	5514	5586	5658	5729	5801	5873	5944	6016	6088	
62	6159	6231	6303	6374	6446	6518	6589	6661	6732	6804	
63	6876	6947	7019	7091	7162	7234	7304	7377	7449	7520	
64	7592	7664	7735	7807	7878	7950	8022	8093	8165	8236	
6065	8308	8380	8451	8523	8594	8666	8738	8809	8881	8952	
66	9024	9096	9167	9239	9310	9382	9454	9525	9597	9668	
67	783 9740	9812	9883	9955	0026	0098	0169	0241	0313	0384	
68	0456	0527	0599	0670	0742	0814	0885	0957	1028	1100	
69	1171	1243	1314	1386	1458	1529	1601	1672	1744	1815	
6070	1887	1958	2030	2102	2173	2245	2316	2388	2459	2531	
71	2502	2574	2645	2717	2788	2860	2932	3003	3075	3146	
72	3318	3389	3461	3532	3604	3675	3747	3818	3890	3961	
73	4033	4104	4176	4247	4319	4390	4462	4533	4605	4676	
74	4748	4819	4891	4962	5034	5105	5177	5248	5320	5391	
6075	5463	5534	5606	5677	5749	5820	5892	5963	6035	6106	
76	6178	6249	6321	6392	6464	6535	6606	6678	6749	6821	
77	6892	6964	7035	7107	7178	7250	7321	7393	7464	7536	
78	7607	7678	7750	7821	7893	7964	8036	8107	8179	8250	
79	8321	8393	8464	8536	8607	8679	8750	8821	8893	8964	
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81	784 9750	9821	9893	9964	0036	0107	0179	0250	0321	0393	
82	0464	0536	0607	0678	0750	0821	0893	0964	1035	1107	
83	1178	1250	1321	1392	1464	1535	1607	1678	1749	1821	
84	1892	1963	2035	2106	2178	2249	2320	2392	2463	2534	
6085	2506	2577	2649	2720	2791	2863	2934	3006	3077	3148	
86	3319	3391	3462	3534	3605	3676	3748	3819	3890	3962	
87	4033	4104	4176	4247	4318	4390	4461	4532	4604	4675	
88	4746	4818	4889	4960	5032	5103	5174	5246	5317	5388	
89	5460	5531	5602	5674	5745	5816	5888	5959	6030	6102	
6090	6173	6244	6316	6387	6458	6529	6601	6672	6743	6815	
91	6886	6957	7029	7100	7171	7242	7314	7385	7456	7528	
92	7539	7610	7682	7753	7824	7895	7967	8038	8109	8181	
93	8312	8383	8454	8526	8597	8668	8739	8811	8882	8953	
94	9024	9096	9167	9238	9310	9381	9452	9523	9595	9666	
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96	0450	0521	0592	0663	0735	0806	0877	0948	1019	1091	
97	1162	1233	1304	1376	1447	1518	1589	1661	1732	1803	
98	1874	1945	2017	2088	2159	2230	2301	2373	2444	2515	
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02		4722	4793	4864	4936	5007	5078	5149	5220	5291	5363
03		5434	5505	5576	5647	5718	5789	5861	5932	6003	6074
04		6145	6216	6288	6359	6430	6501	6572	6643	6714	6786
6105		6857	6928	6999	7070	7141	7212	7283	7355	7426	7497
06		7568	7639	7710	7781	7852	7924	7995	8066	8137	8208
07		8279	8350	8421	8493	8564	8635	8706	8777	8848	8919
08		8990	9061	9132	9204	9275	9346	9417	9488	9559	9630
09	786	9701	9772	9843	9915	9986	0057	0128	0199	0270	0341
6110		0412	0483	0554	0625	0696	0767	0839	0910	0981	1052
11		1123	1194	1265	1336	1407	1478	1549	1620	1691	1762
12		1833	1905	1976	2047	2118	2189	2260	2331	2402	2473
13		2544	2615	2686	2757	2828	2899	2970	3041	3112	3183
14		3254	3325	3396	3467	3538	3609	3681	3752	3823	3894
6115		3965	4036	4107	4178	4249	4320	4391	4462	4533	4604
16		4675	4746	4817	4888	4959	5030	5101	5172	5243	5314
17		5385	5456	5527	5598	5669	5740	5811	5882	5953	6024
18		6095	6166	6237	6308	6379	6450	6521	6592	6663	6734
19		6805	6876	6946	7017	7088	7159	7230	7301	7372	7443
6120		7514	7585	7656	7727	7798	7869	7940	8011	8082	8153
21		8224	8295	8366	8437	8508	8579	8649	8720	8791	8862
22		8933	9004	9075	9146	9217	9288	9359	9430	9501	9572
23	787	9643	9714	9784	9855	9926	9997	0068	0139	0210	0281
24		0352	0423	0494	0565	0636	0706	0777	0848	0919	0990
6125		1061	1132	1203	1274	1345	1415	1486	1557	1628	1699
26		1770	1841	1912	1983	2053	2124	2195	2266	2337	2408
27		2479	2550	2621	2691	2762	2833	2904	2975	3046	3117
28		3188	3258	3329	3400	3471	3542	3613	3684	3754	3825
29		3896	3967	4038	4109	4180	4250	4321	4392	4463	4534
6130		4605	4676	4746	4817	4888	4959	5030	5101	5171	5242
31		5313	5384	5455	5526	5596	5667	5738	5809	5880	5951
32		6021	6092	6163	6234	6305	6376	6446	6517	6588	6659
33		6730	6800	6871	6942	7013	7084	7155	7225	7296	7367
34		7438	7509	7579	7650	7721	7792	7863	7933	8004	8075
6135		8146	8216	8287	8358	8429	8500	8570	8641	8712	8783
36		8854	8924	8995	9066	9137	9207	9278	9349	9420	9490
37	788	9561	9632	9703	9774	9844	9915	9986	0057	0127	0198
38		0269	0340	0410	0481	0552	0623	0693	0764	0835	0906
39		0976	1047	1118	1189	1259	1330	1401	1472	1542	1613
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41		2391	2462	2532	2603	2674	2745	2815	2886	2957	3027
42		3098	3169	3240	3310	3381	3452	3522	3593	3664	3734
43		3805	3876	3947	4017	4088	4159	4229	4300	4371	4441
44		4512	4583	4653	4724	4795	4865	4936	5007	5078	5148
6145		5219	5290	5360	5431	5502	5572	5643	5714	5784	5855
46		5926	5996	6067	6138	6208	6279	6350	6420	6491	6561
47		6632	6703	6773	6844	6915	6985	7056	7127	7197	7268
48		7339	7409	7480	7551	7621	7692	7762	7833	7904	7974
49		8045	8116	8186	8257	8327	8398	8469	8539	8610	8681
6150		8751	8822	8892	8963	9034	9104	9175	9245	9316	9387
51	789	9457	9528	9598	9669	9740	9810	9881	9951	0022	0093
52		0163	0234	0304	0375	0446	0516	0587	0657	0728	0799
53		0869	0940	1010	1081	1151	1222	1293	1363	1434	1504
54		1575	1645	1716	1787	1857	1928	1998	2069	2139	2210
6155		2281	2351	2422	2492	2563	2633	2704	2774	2845	2916
56		2986	3057	3127	3198	3268	3339	3409	3480	3550	3621
57		3692	3762	3833	3903	3974	4044	4115	4185	4256	4326
58		4397	4467	4538	4608	4679	4749	4820	4890	4961	5032
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62		7217	7287	7358	7428	7499	7569	7640	7710	7781	7851
63		7922	7992	8063	8133	8204	8274	8344	8415	8485	8556
64		8626	8697	8767	8838	8908	8979	9049	9119	9190	9260
6165		9331	9401	9472	9542	9613	9683	9753	9824	9894	9965
65	790	0035	0106	0176	0247	0317	0387	0458	0528	0599	0669
66		0739	0810	0880	0951	1021	1092	1162	1232	1303	1373
67		1444	1514	1584	1655	1725	1796	1866	1936	2007	2077
68		2148	2218	2288	2359	2429	2500	2570	2640	2711	2781
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6170		2852	2922	2992	3063	3133	3204	3274	3344	3415	3485
71		3555	3625	3696	3767	3837	3907	3978	4048	4118	4189
72		4259	4330	4400	4470	4541	4611	4681	4752	4822	4892
73		4963	5033	5103	5174	5244	5315	5385	5455	5526	5596
74		5666	5737	5807	5877	5948	6018	6088	6159	6229	6299
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76		7073	7143	7214	7284	7354	7424	7495	7565	7635	7706
77		7776	7846	7917	7987	8057	8128	8198	8268	8338	8409
78		8479	8549	8620	8690	8760	8831	8901	8971	9041	9112
79		9182	9252	9323	9393	9463	9533	9604	9674	9744	9814
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81		0587	0658	0728	0798	0868	0939	1009	1079	1150	1220
82		1290	1360	1431	1501	1571	1641	1711	1782	1852	1922
83		1992	2063	2133	2203	2273	2344	2414	2484	2554	2625
84		2695	2765	2835	2905	2976	3046	3116	3186	3257	3327
6185		3397	3467	3537	3608	3678	3748	3818	3889	3959	4029
86		4099	4169	4240	4310	4380	4450	4520	4591	4661	4731
87		4801	4871	4942	5012	5082	5152	5222	5292	5363	5433
88		5503	5573	5643	5714	5784	5854	5924	5994	6064	6135
89		6205	6275	6345	6415	6486	6556	6626	6696	6766	6836
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91		7608	7678	7748	7818	7889	7959	8029	8099	8169	8239
92		8309	8380	8450	8520	8590	8660	8730	8800	8871	8941
93		9011	9081	9151	9221	9291	9361	9432	9502	9572	9642
94		9712	9782	9852	9922	9992	0063	0133	0203	0273	0343
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96		1114	1184	1254	1324	1394	1465	1535	1605	1675	1745
97		1815	1885	1955	2025	2095	2165	2235	2306	2376	2446
98		2516	2586	2656	2726	2796	2866	2936	3006	3076	3146
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01		4617	4687	4757	4827	4897	4967	5038	5108	5178	5248
02		5318	5388	5458	5528	5598	5668	5738	5808	5878	5948
03		6018	6088	6158	6228	6298	6368	6438	6508	6578	6648
04		6718	6788	6858	6928	6998	7068	7138	7208	7278	7348
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06		8118	8188	8258	8328	8398	8468	8538	8608	8678	8747
07		8817	8887	8957	9027	9097	9167	9237	9307	9377	9447
08		9517	9587	9657	9727	9797	9867	9937	0007	0077	0147
09	793	0217	0287	0356	0426	0496	0566	0636	0706	0776	0846
6210		0916	0986	1056	1126	1196	1266	1336	1406	1476	1545
11		1615	1685	1755	1825	1895	1965	2035	2105	2175	2245
12		2314	2384	2454	2524	2594	2664	2734	2804	2874	2944
13		3014	3083	3153	3223	3293	3363	3433	3503	3573	3643
14		3712	3782	3852	3922	3992	4062	4132	4202	4272	4341
6215		4411	4481	4551	4621	4691	4761	4831	4900	4970	5040
16		5110	5180	5250	5320	5390	5460	5529	5599	5669	5739
17		5809	5879	5948	6018	6088	6158	6228	6298	6367	6437
18		6507	6577	6647	6717	6787	6856	6926	6996	7066	7136
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22		9300	9370	9440	9509	9579	9649	9719	9789	9858	9928
23		9998	0068	0138	0207	0277	0347	0417	0487	0556	0626
24	794	0636	0706	0776	0845	0915	0985	1055	1124	1194	1264
6225		1394	1463	1533	1603	1673	1742	1812	1882	1952	2021
26		2091	2161	2231	2300	2370	2440	2510	2579	2649	2719
27		2789	2858	2928	2998	3068	3137	3207	3277	3347	3416
28		3486	3556	3626	3695	3765	3835	3904	3974	4044	4114
29		4183	4253	4323	4392	4462	4532	4602	4671	4741	4811
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31		5578	5647	5717	5787	5856	5926	5996	6065	6135	6205
32		6274	6344	6414	6484	6553	6623	6693	6762	6832	6902
33		6971	7041	7111	7180	7250	7320	7389	7459	7528	7598
34		7668	7738	7807	7877	7946	8016	8086	8155	8225	8295
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37	795	9757	9827	9897	9966	0036	0106	0175	0245	0314	0384
38		0454	0523	0593	0663	0732	0802	0871	0941	1011	1080
39		1150	1219	1289	1359	1428	1498	1567	1637	1707	1776
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41		2542	2611	2681	2751	2820	2890	2959	3029	3098	3168
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46		6020	6090	6159	6229	6298	6367	6437	6506	6576	6646
47		6715	6785	6854	6924	6993	7063	7132	7202	7271	7341
48		7410	7480	7549	7619	7688	7758	7827	7897	7966	8036
49		8105	8175	8244	8314	8383	8453	8522	8592	8661	8731
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53		0884	0954	1023	1093	1162	1232	1301	1370	1440	1509
54		1579	1648	1718	1787	1857	1926	1995	2065	2134	2204
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58		4356	4425	4494	4564	4633	4703	4772	4841	4911	4980
59		5050	5119	5188	5258	5327	5396	5466	5535	5605	5674
6260		5743	5813	5882	5951	6021	6090	6160	6229	6298	6368
61		6437	6506	6576	6645	6714	6784	6853	6923	6992	7061
62		7131	7200	7269	7339	7408	7477	7547	7616	7685	7755
63		7824	7893	7963	8032	8101	8171	8240	8309	8379	8448
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67		0597	0666	0736	0805	0874	0943	1013	1082	1151	1221
68		1290	1359	1428	1498	1567	1636	1706	1775	1844	1913
69		1983	2052	2121	2191	2260	2329	2398	2468	2537	2606
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71		3368	3437	3507	3576	3645	3714	3784	3853	3922	3991
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73		4753	4822	4891	4961	5030	5099	5168	5237	5307	5376
74		5445	5514	5584	5653	5722	5791	5860	5930	5999	6068
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76		6829	6899	6968	7037	7106	7175	7245	7314	7383	7452
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78		8213	8282	8351	8421	8490	8559	8628	8697	8766	8836
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83		1671	1740	1809	1878	1947	2016	2085	2154	2224	2293	3 21
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87		4435	4504	4573	4642	4711	4780	4849	4918	4987	5056	7 48
88		5125	5194	5263	5333	5402	5471	5540	5609	5678	5747	8 55
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91		7197	7266	7335	7404	7473	7542	7611	7680	7749	7818	
92		7837	7906	8025	8094	8163	8232	8301	8370	8439	8508	
93		8577	8646	8715	8784	8853	8922	8991	9060	9129	9198	
94		9267	9336	9405	9474	9543	9612	9681	9750	9819	9888	
6295	799	9957	0026	0095	0164	0233	0302	0371	0440	0509	0578	
96		0647	0716	0785	0854	0923	0992	1061	1130	1199	1268	
97		1337	1406	1475	1544	1613	1682	1751	1820	1889	1958	
98		2027	2096	2165	2233	2302	2371	2440	2509	2578	2647	
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01		4095	4164	4233	4302	4370	4439	4508	4577	4646	4715	
02		4784	4853	4922	4991	5060	5129	5197	5266	5335	5404	
03		5473	5542	5611	5680	5749	5818	5886	5955	6024	6093	
04		6162	6231	6300	6369	6438	6506	6575	6644	6713	6782	
6305		6851	6920	6989	7058	7126	7195	7264	7333	7402	7471	
06		7540	7609	7677	7746	7815	7884	7953	8022	8091	8159	
07		8228	8297	8366	8435	8504	8573	8641	8710	8779	8848	
08		8917	8986	9055	9123	9192	9261	9330	9399	9468	9536	
09	800	9605	9674	9743	9812	9881	9949	0018	0087	0156	0225	
6310		0294	0362	0431	0500	0569	0638	0707	0775	0844	0913	
11		0982	1051	1119	1188	1257	1326	1395	1463	1532	1601	
12		1670	1739	1808	1876	1945	2014	2083	2152	2220	2289	
13		2358	2427	2495	2564	2633	2702	2771	2839	2908	2977	
14		3046	3115	3183	3252	3321	3390	3458	3527	3596	3665	
6315		3734	3802	3871	3940	4009	4077	4146	4215	4284	4352	
16		4421	4490	4559	4627	4696	4765	4834	4903	4971	5040	
17		5109	5178	5246	5315	5384	5453	5521	5590	5659	5727	
18		5796	5865	5934	6002	6071	6140	6209	6277	6346	6415	
19		6484	6552	6621	6690	6758	6827	6896	6965	7033	7102	
6320		7171	7239	7308	7377	7446	7514	7583	7652	7720	7789	
21		7858	7927	7995	8064	8133	8201	8270	8339	8408	8476	
22		8545	8614	8682	8751	8820	8888	8957	9025	9094	9163	
23		9232	9301	9369	9438	9507	9575	9644	9713	9781	9850	
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6325		0605	0674	0743	0811	0880	0949	1017	1086	1155	1223	
26		1292	1361	1429	1498	1566	1635	1704	1772	1841	1910	
27		1973	2047	2116	2184	2253	2322	2390	2459	2527	2596	
28		2665	2733	2802	2871	2939	3008	3076	3145	3214	3282	
29		3351	3420	3488	3557	3625	3694	3763	3831	3900	3968	
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33		6095	6163	6232	6301	6369	6438	6506	6575	6643	6712	
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37		8837	8906	8974	9043	9111	9180	9248	9317	9385	9454	
38	802	9522	9591	9659	9728	9796	9865	9933	0002	0070	0139	
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41	1578	1646	1715	1783	1851	1920	1988	2057	2125	2194	1 7
42	2252	2331	2399	2468	2536	2605	2673	2742	2810	2879	2 14
43	2947	3016	3084	3153	3221	3289	3358	3426	3495	3563	3 21
44	3632	3700	3769	3837	3906	3974	4042	4111	4179	4248	4 28
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46	5001	5069	5138	5206	5274	5343	5411	5480	5548	5617	6 41
47	5685	5753	5822	5890	5959	6027	6096	6164	6232	6301	7 48
48	6369	6438	6506	6574	6643	6711	6780	6848	6916	6985	8 55
49	7053	7122	7190	7258	7327	7395	7464	7532	7600	7669	9 62
6350	7737	7806	7874	7942	8011	8079	8148	8216	8284	8353	
51	8421	8490	8558	8626	8695	8763	8831	8900	8968	9037	
52	9105	9173	9242	9310	9378	9447	9515	9583	9652	9720	
53	803 9789	9857	9925	9994	0062	0130	0199	0267	0335	0404	
54	0472	0540	0609	0677	0745	0814	0882	0951	1019	1087	
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67	9348	9417	9485	9553	9621	9690	9758	9826	9894	9962	
68	804 0031	0099	0167	0235	0303	0372	0440	0508	0576	0644	
69	0712	0781	0849	0917	0985	1053	1122	1190	1258	1326	
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67		7029	7096	7163	7230	7297	7364	7432	7499	7566	7633
68		7700	7767	7834	7902	7969	8036	8103	8170	8237	8304
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93		4454	4521	4588	4655	4722	4788	4855	4922	4989	5056
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96		6460	6527	6594	6661	6728	6794	6861	6928	6995	7062
97		7129	7196	7262	7329	7396	7463	7530	7597	7663	7730
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28		7801	7868	7935	8001	8068	8134	8201	8267	8334	8400
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42		7105	7172	7238	7305	7371	7437	7504	7570	7636	7703
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56		6389	6456	6522	6588	6654	6721	6787	6853	6919	6986
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38	5310	5375	5439	5503	5568	5632	5697	5761	5826	5890	
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91		9337	9401	9465	9529	9593	9657	9721	9785	9849	9913
92	832	9977	0041	0105	0169	0233	0296	0360	0424	0488	0552
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98		3812	3875	3939	4003	4067	4131	4195	4259	4323	4387
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03		7005	7069	7132	7196	7260	7324	7388	7452	7515	7579
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11		2109	2173	2236	2300	2364	2428	2491	2555	2619	2683
12		2746	2810	2874	2938	3001	3065	3129	3193	3256	3320
13		3384	3448	3511	3575	3639	3703	3766	3830	3894	3958
14		4021	4085	4149	4212	4276	4340	4404	4467	4531	4595
6815		4659	4722	4785	4850	4913	4977	5041	5105	5168	5232
16		5296	5360	5423	5487	5551	5614	5678	5742	5806	5869
17		5933	5997	6060	6124	6188	6251	6315	6379	6443	6506
18		6570	6634	6697	6761	6825	6888	6952	7016	7080	7143
19		7207	7271	7334	7398	7462	7525	7589	7653	7716	7780
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21		8480	8544	8608	8672	8735	8799	8862	8926	8990	9053	1 6
22		9117	9181	9244	9308	9372	9435	9499	9563	9626	9690	2 13
23	834	9754	9817	9881	9945	0008	0072	0136	0199	0263	0327	3 19
24		0390	0454	0517	0581	0645	0708	0772	0836	0899	0963	4 26
6825		1027	1090	1154	1217	1281	1345	1408	1472	1536	1599	5 32
26		1663	1726	1790	1854	1917	1981	2045	2108	2172	2235	6 38
27		2299	2363	2426	2490	2553	2617	2681	2744	2808	2872	7 45
28		2935	2999	3062	3126	3190	3253	3317	3380	3444	3508	8 51
29		3571	3635	3698	3762	3826	3889	3953	4016	4080	4143	9 58
6830		4207	4271	4334	4398	4461	4525	4589	4652	4716	4779	
31		4843	4906	4970	5034	5097	5161	5224	5288	5351	5415	
32		5479	5542	5606	5669	5733	5796	5860	5924	5987	6051	
33		6114	6178	6241	6305	6368	6432	6496	6559	6623	6686	
34		6750	6813	6877	6940	7004	7067	7131	7195	7258	7322	
6835		7385	7449	7512	7576	7639	7703	7766	7830	7893	7957	
36		8021	8084	8148	8211	8275	8338	8402	8465	8529	8592	
37		8656	8719	8783	8846	8910	8973	9037	9100	9164	9227	
38		9291	9354	9418	9481	9545	9609	9672	9736	9799	9863	
39	835	9926	9990	0053	0117	0180	0244	0307	0371	0434	0498	
6840		0561	0625	0688	0751	0815	0878	0942	1005	1069	1132	
41		1196	1259	1323	1386	1450	1513	1577	1640	1704	1767	
42		1831	1894	1958	2021	2085	2148	2212	2275	2338	2402	
43		2465	2529	2592	2656	2719	2783	2846	2910	2973	3037	
44		3100	3163	3227	3290	3354	3417	3481	3544	3608	3671	
6845		3735	3798	3861	3925	3988	4052	4115	4179	4242	4306	
46		4369	4432	4496	4559	4623	4686	4750	4813	4876	4940	
47		5003	5067	5130	5194	5257	5320	5384	5447	5511	5574	
48		5638	5701	5764	5828	5891	5955	6018	6081	6145	6208	
49		6272	6335	6398	6462	6525	6589	6652	6716	6779	6842	
6850		6906	6969	7033	7096	7159	7223	7286	7349	7413	7476	
51		7540	7603	7666	7730	7793	7857	7920	7983	8047	8110	
52		8174	8237	8300	8364	8427	8490	8554	8617	8681	8744	
53		8807	8871	8934	8997	9061	9124	9188	9251	9314	9378	
54	836	9441	9504	9568	9631	9694	9758	9821	9885	9948	0011	
6855		0075	0138	0201	0265	0328	0391	0455	0518	0581	0645	
56		0708	0771	0835	0898	0961	1025	1088	1151	1215	1278	
57		1341	1405	1468	1531	1595	1658	1721	1785	1848	1911	
58		1975	2038	2101	2165	2228	2291	2355	2418	2481	2545	
59		2608	2671	2735	2798	2861	2925	2988	3051	3115	3178	
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61		3874	3937	4001	4064	4127	4191	4254	4317	4381	4444	
62		4507	4570	4634	4697	4760	4824	4887	4950	5013	5077	
63		5140	5203	5267	5330	5393	5456	5520	5583	5646	5709	
64		5773	5836	5899	5963	6026	6089	6152	6216	6279	6342	
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66		7038	7101	7164	7228	7291	7354	7417	7481	7544	7607	
67		7670	7734	7797	7860	7923	7987	8050	8113	8176	8240	
68		8303	8366	8429	8493	8556	8619	8682	8745	8809	8872	
69		8935	8998	9062	9125	9188	9251	9314	9378	9441	9504	
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71		0199	0263	0326	0389	0452	0516	0579	0642	0705	0768	
72		0832	0895	0958	1021	1084	1147	1211	1274	1337	1400	
73		1463	1527	1590	1653	1716	1779	1843	1906	1969	2032	
74		2095	2158	2222	2285	2348	2411	2474	2538	2601	2664	
6875		2727	2790	2853	2917	2980	3043	3106	3169	3232	3296	
76		3359	3422	3485	3548	3611	3674	3738	3801	3864	3927	
77		3990	4053	4117	4180	4243	4306	4369	4432	4495	4558	
78		4622	4685	4748	4811	4874	4937	5001	5064	5127	5190	
79		5253	5316	5379	5442	5506	5569	5632	5695	5758	5821	
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N. 688.

Log. 837.

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82		7147	7210	7273	7336	7399	7462	7525	7588	7652	7715
83		7778	7841	7904	7967	8030	8093	8156	8219	8282	8346
84		8409	8472	8535	8598	8661	8724	8787	8850	8913	8976
6885		9039	9103	9166	9229	9292	9355	9418	9481	9544	9607
86	838	9670	9733	9796	9859	9922	9986	0049	0112	0175	0238
87		0301	0364	0427	0490	0553	0616	0679	0742	0805	0868
88		0931	0994	1057	1121	1184	1247	1310	1373	1436	1499
89		1562	1625	1688	1751	1814	1877	1940	2003	2066	2129
6890		2192	2255	2318	2381	2444	2507	2570	2633	2696	2759
91		2822	2886	2949	3012	3075	3138	3201	3264	3327	3390
92		3453	3516	3579	3642	3705	3768	3831	3894	3957	4020
93		4083	4146	4209	4272	4335	4398	4461	4524	4587	4650
94		4713	4776	4839	4902	4965	5028	5091	5154	5217	5280
6895		5343	5406	5469	5532	5595	5658	5721	5784	5847	5910
96		5973	6036	6098	6161	6224	6287	6350	6413	6476	6539
97		6602	6665	6728	6791	6854	6917	6980	7043	7106	7169
98		7232	7295	7358	7421	7484	7547	7610	7673	7736	7799
99		7861	7924	7987	8050	8113	8176	8239	8302	8365	8428
6900		8491	8554	8617	8680	8743	8806	8869	8931	8994	9057
01		9120	9183	9246	9309	9372	9435	9498	9561	9624	9687
02	839	9750	9812	9875	9938	0001	0064	0127	0190	0253	0316
03		0379	0442	0505	0567	0630	0693	0756	0819	0882	0945
04		1008	1071	1134	1197	1259	1322	1385	1448	1511	1574
6905		1637	1700	1763	1826	1888	1951	2014	2077	2140	2203
06		2266	2329	2392	2454	2517	2580	2643	2706	2769	2832
07		2895	2957	3020	3083	3146	3209	3272	3335	3398	3460
08		3523	3586	3649	3712	3775	3838	3900	3963	4026	4089
09		4152	4215	4278	4341	4403	4466	4529	4592	4655	4718
6910		4780	4843	4906	4969	5032	5095	5158	5220	5283	5346
11		5409	5472	5535	5597	5660	5723	5786	5849	5912	5974
12		6037	6100	6163	6226	6289	6351	6414	6477	6540	6603
13		6666	6728	6791	6854	6917	6980	7042	7105	7168	7231
14		7294	7357	7419	7482	7545	7608	7671	7733	7796	7859
6915		7922	7985	8047	8110	8173	8236	8299	8361	8424	8487
16		8550	8613	8675	8738	8801	8864	8927	8989	9052	9115
17		9178	9241	9303	9366	9429	9492	9554	9617	9680	9743
18	840	9806	9868	9931	9994	0057	0119	0182	0245	0308	0371
19		0433	0496	0559	0622	0684	0747	0810	0873	0935	0998
6920		1061	1124	1186	1249	1312	1375	1437	1500	1563	1626
21		1688	1751	1814	1877	1939	2002	2065	2128	2190	2253
22		2316	2379	2441	2504	2567	2630	2692	2755	2818	2881
23		2943	3006	3069	3132	3194	3257	3320	3382	3445	3508
24		3571	3633	3696	3759	3821	3884	3947	4010	4072	4135
6925		4198	4260	4323	4386	4449	4511	4574	4637	4699	4762
26		4825	4888	4950	5013	5076	5138	5201	5264	5326	5389
27		5452	5515	5577	5640	5703	5765	5828	5891	5953	6016
28		6079	6141	6204	6267	6330	6392	6455	6518	6580	6643
29		6706	6768	6831	6894	6956	7019	7082	7144	7207	7270
6930		7332	7395	7458	7520	7583	7646	7708	7771	7834	7896
31		7957	8022	8084	8147	8210	8272	8335	8398	8460	8523
32		8586	8648	8711	8773	8836	8899	8961	9024	9087	9149
33		9212	9275	9337	9400	9463	9525	9588	9650	9713	9776
34	841	9838	9901	9964	0026	0089	0152	0214	0277	0339	0402
6935		0465	0527	0590	0653	0715	0778	0840	0903	0965	1028
36		1091	1153	1216	1279	1341	1404	1467	1529	1592	1654
37		1717	1780	1842	1905	1967	2030	2093	2155	2218	2280
38		2343	2406	2468	2531	2593	2656	2719	2781	2844	2906
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63

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41		4220	4283	4346	4409	4471	4533	4596	4658	4721	1
42		4846	4909	4971	5034	5096	5159	5221	5284	5347	2
43		5472	5534	5597	5659	5722	5784	5847	5909	5972	3
44		6097	6160	6222	6285	6347	6410	6472	6535	6597	4
6945		6723	6785	6848	6910	6973	7035	7098	7160	7223	5
46		7348	7410	7473	7535	7598	7660	7723	7785	7848	6
47		7973	8036	8098	8161	8223	8286	8348	8411	8473	7
48		8598	8661	8723	8786	8848	8911	8973	9036	9098	8
49		9223	9286	9348	9411	9473	9536	9598	9661	9723	9
6950	842	9848	9911	9973	0036	0098	0160	0223	0285	0348	0410
51		0473	0535	0598	0660	0723	0785	0848	0910	0973	1035
52		1098	1160	1223	1285	1348	1410	1472	1535	1597	1660
53		1722	1785	1847	1910	1972	2035	2097	2160	2222	2284
54		2347	2409	2472	2534	2597	2659	2722	2784	2846	2909
6955		2971	3034	3096	3159	3221	3284	3346	3408	3471	3533
55		3596	3658	3721	3783	3845	3908	3970	4033	4095	4158
56		4220	4283	4346	4409	4471	4533	4596	4658	4721	4783
57		4846	4909	4971	5034	5096	5159	5221	5284	5347	5409
58		5472	5534	5597	5659	5722	5784	5847	5909	5972	6035
59		5468	5531	5593	5656	5718	5780	5843	5905	5968	6030
6960		6092	6155	6217	6280	6342	6404	6467	6529	6592	6654
61		6716	6779	6841	6904	6966	7028	7091	7153	7215	7278
62		7340	7403	7465	7527	7590	7652	7714	7777	7839	7902
63		7364	8026	8089	8151	8213	8276	8338	8401	8463	8525
64		8588	8650	8712	8775	8837	8899	8962	9024	9086	9149
6965		9211	9274	9336	9399	9461	9523	9585	9648	9710	9772
66	843	9835	9897	9959	0022	0084	0146	0209	0271	0333	0396
67		0458	0520	0583	0645	0707	0770	0832	0894	0957	1019
68		1081	1144	1206	1268	1331	1393	1455	1518	1580	1642
69		1705	1767	1829	1892	1954	2016	2079	2141	2203	2265
6970		2328	2390	2452	2515	2577	2639	2702	2764	2826	2889
71		2951	3013	3075	3138	3200	3262	3325	3387	3449	3511
72		3574	3636	3698	3761	3823	3885	3948	4010	4072	4134
73		4197	4259	4321	4383	4446	4508	4570	4633	4695	4757
74		4319	4382	4444	5006	5068	5131	5193	5255	5318	5380
6975		5442	5504	5567	5629	5691	5753	5816	5878	5940	6002
76		6065	6127	6189	6251	6314	6376	6438	6500	6563	6625
77		6637	6700	6762	6824	6887	6949	7011	7073	7135	7197
78		7310	7372	7434	7496	7559	7621	7683	7745	7808	7870
79		7932	7994	8056	8119	8181	8243	8305	8368	8430	8492
6980		8554	8616	8679	8741	8803	8865	8928	8990	9052	9114
81		9176	9239	9301	9363	9425	9487	9550	9612	9674	9736
82	844	9798	9861	9923	9985	0047	0109	0172	0234	0296	0358
83		0420	0483	0545	0607	0669	0731	0794	0856	0918	0980
84		1042	1104	1167	1229	1291	1353	1415	1478	1540	1602
6985		1664	1726	1789	1851	1913	1975	2037	2099	2161	2224
86		2286	2348	2410	2472	2534	2597	2659	2721	2783	2845
87		2907	2970	3032	3094	3156	3218	3280	3343	3405	3467
88		3529	3591	3653	3715	3778	3840	3902	3964	4026	4088
89		4150	4213	4275	4337	4399	4461	4523	4585	4647	4710
6990		4772	4834	4896	4958	5020	5082	5145	5207	5269	5331
91		5393	5455	5517	5579	5642	5704	5766	5828	5890	5952
92		6014	6076	6138	6201	6263	6325	6387	6449	6511	6573
93		6635	6697	6759	6822	6884	6946	7008	7070	7132	7194
94		7256	7318	7380	7443	7505	7567	7629	7691	7753	7815
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95		8498	8560	8622	8684	8746	8808	8870	8933	8995	9057
96		9119	9181	9243	9305	9367	9429	9491	9553	9615	9677
97	845	9739	9801	9863	9925	9988	0050	0112	0174	0236	0298
98							0670	0732	0794	0856	0918
99		0360	0422	0484	0546	0608					
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03		2841	2903	2965	3027	3089	3151	3213	3275	3337	3399	3 19
04		3461	3523	3585	3647	3709	3771	3833	3895	3957	4019	4 25
7005		4081	4143	4205	4267	4329	4391	4453	4515	4577	4639	5 31
06		4701	4763	4825	4887	4949	5011	5073	5135	5197	5259	6 37
07		5321	5383	5445	5507	5569	5631	5693	5755	5817	5879	7 43
08		5941	6003	6065	6127	6189	6251	6313	6375	6437	6499	8 50
09		6561	6623	6685	6746	6808	6870	6932	6994	7056	7118	9 56
7010		7180	7242	7304	7366	7428	7490	7552	7614	7676	7738	
11		7800	7862	7924	7986	8047	8109	8171	8233	8295	8357	
12		8419	8481	8543	8605	8667	8729	8791	8853	8915	8976	
13		9038	9100	9162	9224	9286	9348	9410	9472	9534	9596	
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17		1515	1577	1639	1700	1762	1824	1886	1948	2010	2072	
18		2134	2196	2257	2319	2381	2443	2505	2567	2629	2691	
19		2752	2814	2876	2938	3000	3062	3124	3186	3247	3309	
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22		4608	4670	4732	4794	4856	4917	4979	5041	5103	5165	
23		5227	5289	5350	5412	5474	5536	5598	5660	5721	5783	
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26		7081	7143	7205	7267	7329	7391	7452	7514	7576	7638	
27		7700	7761	7823	7885	7947	8009	8070	8132	8194	8256	
28		8318	8379	8441	8503	8565	8626	8688	8750	8812	8874	
29		8935	8997	9059	9121	9183	9244	9306	9368	9430	9491	
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31		0171	0233	0295	0356	0418	0480	0542	0603	0665	0727	
32		0789	0850	0912	0974	1036	1097	1159	1221	1283	1344	
33		1406	1468	1530	1591	1653	1715	1777	1838	1900	1962	
34		2024	2085	2147	2209	2271	2332	2394	2456	2518	2579	
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33		2817	2876	2935	2995	3054	3113	3172	3231	3291	3350	
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27		8134	8193	8251	8310	8368	8427	8485	8544	8602	8660
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36		3394	3452	3511	3569	3627	3686	3744	3803	3861	3919
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38		4552	4610	4679	4737	4795	4854	4912	4970	5029	5087
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43		7480	7539	7597	7655	7714	7772	7830	7889	7947	8005
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47		9814	9872	9930	9988						
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49		0980	1038	1096	1155	1213	1271	1330	1388	1446	1504
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52		2728	2787	2845	2903	2962	3020	3078	3136	3195	3253
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56		5059	5117	5175	5234	5292	5350	5408	5467	5525	5583
57		5641	5700	5758	5816	5874	5933	5991	6049	6107	6166
58		6224	6282	6340	6398	6457	6515	6573	6631	6690	6748
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23	3911	3968	4026	4084	4142	4199	4257	4315	4372	4430	
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68		3092	3148	3204	3260	3316	3372	3428	3484	3539	3595
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Log. 890.

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83	1470	1526	1582	1638	1694	1749	1805	1861	1917	1972	3 17
84	2028	2084	2140	2196	2251	2307	2363	2419	2475	2530	4 22
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86	3144	3200	3256	3311	3367	3423	3479	3534	3590	3646	6 34
87	3702	3758	3813	3869	3925	3981	4036	4092	4148	4204	7 39
88	4259	4315	4371	4427	4482	4538	4594	4650	4706	4761	8 45
89	4817	4873	4929	4984	5040	5096	5152	5207	5263	5319	9 50
7790	5375	5430	5486	5542	5598	5653	5709	5765	5821	5876	
91	5932	5988	6044	6099	6155	6211	6266	6322	6378	6434	
92	6489	6545	6601	6657	6712	6768	6824	6880	6935	6991	
93	7047	7102	7158	7214	7270	7325	7381	7437	7493	7548	
94	7604	7660	7715	7771	7827	7883	7938	7994	8050	8105	
7795	8161	8217	8273	8328	8384	8440	8495	8551	8607	8663	
96	8718	8774	8830	8885	8941	8997	9053	9108	9164	9220	
97	9275	9331	9387	9442	9498	9554	9610	9665	9721	9777	
98	9832	9888	9944	9999	0055	0111	0166	0222	0278	0334	
99	892 0389	0445	0501	0556	0612	0668	0723	0779	0835	0890	
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01	1503	1558	1614	1670	1725	1781	1837	1892	1948	2004	
02	2059	2115	2171	2226	2282	2338	2393	2449	2505	2560	
03	2616	2672	2727	2783	2839	2894	2950	3006	3061	3117	
04	3173	3228	3284	3340	3395	3451	3506	3562	3618	3673	
7805	3729	3785	3840	3896	3952	4007	4063	4119	4174	4230	
06	4285	4341	4397	4452	4508	4564	4619	4675	4731	4786	
07	4842	4897	4953	5009	5064	5120	5176	5231	5287	5342	
08	5398	5454	5509	5565	5621	5676	5732	5787	5843	5899	
09	5954	6010	6065	6121	6177	6232	6288	6344	6399	6455	
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11	7066	7122	7178	7233	7289	7344	7400	7456	7511	7567	
12	7622	7678	7734	7789	7845	7900	7956	8011	8067	8123	
13	8178	8234	8289	8345	8401	8456	8512	8567	8623	8678	
14	8734	8790	8845	8901	8956	9012	9068	9123	9179	9234	
7815	9290	9345	9401	9457	9512	9568	9623	9679	9734	9790	
16	893 9846	9901	9957	0012	0068	0123	0179	0234	0290	0346	
17	0401	0457	0512	0568	0623	0679	0734	0790	0846	0901	
18	0957	1012	1068	1123	1179	1234	1290	1345	1401	1457	
19	1512	1568	1623	1679	1734	1790	1845	1901	1956	2012	
7820	2068	2123	2179	2234	2290	2345	2401	2456	2512	2567	
21	2623	2678	2734	2789	2845	2900	2956	3012	3067	3123	
22	3178	3234	3289	3345	3400	3456	3511	3567	3622	3678	
23	3733	3789	3844	3900	3955	4011	4066	4122	4177	4233	
24	4288	4344	4399	4455	4510	4566	4621	4677	4732	4788	
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26	5398	5454	5509	5565	5620	5676	5731	5787	5842	5898	
27	5953	6009	6064	6120	6175	6231	6286	6342	6397	6453	
28	6508	6564	6619	6675	6730	6786	6841	6897	6952	7007	
29	7063	7118	7174	7229	7285	7340	7396	7451	7507	7562	
7830	7618	7673	7729	7784	7839	7895	7950	8006	8061	8117	
31	8172	8228	8283	8339	8394	8450	8505	8560	8616	8671	
32	8727	8782	8838	8893	8949	9004	9059	9115	9170	9226	
33	9281	9337	9392	9448	9503	9558	9614	9669	9725	9780	
34	894 9836	9891	9947	0002	0057	0113	0168	0224	0279	0335	
7835	0390	0445	0501	0556	0612	0667	0723	0778	0833	0889	
36	0944	1000	1055	1111	1166	1221	1277	1332	1388	1443	
37	1498	1554	1609	1665	1720	1776	1831	1886	1942	1997	
38	2053	2108	2163	2219	2274	2330	2385	2440	2496	2551	
39	2607	2662	2717	2773	2828	2884	2939	2994	3050	3105	
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41		3715	3770	3825	3881	3936	3991	4047	4102	4158	4213	1 6
42		4268	4324	4379	4435	4490	4545	4601	4656	4711	4757	2 11
43		4822	4878	4933	4988	5044	5099	5154	5210	5265	5320	3 17
44		5376	5431	5487	5542	5597	5653	5708	5763	5819	5874	4 22
7845		5929	5985	6040	6096	6151	6206	6262	6317	6372	6428	5 28
46		6483	6538	6594	6649	6704	6760	6815	6870	6926	6981	6 34
47		7037	7092	7147	7203	7258	7313	7369	7424	7479	7535	7 39
48		7590	7645	7701	7756	7811	7867	7922	7977	8033	8088	8 45
49		8143	8199	8254	8309	8365	8420	8475	8531	8586	8641	9 50
7850		8697	8752	8807	8863	8918	8973	9028	9084	9139	9194	
51		9250	9305	9360	9416	9471	9526	9582	9637	9692	9748	
52		9803	9858	9914	9969	0024	0079	0135	0190	0245	0301	
53	895	0356	0411	0467	0522	0577	0632	0688	0743	0798	0854	
54		0909	0964	1020	1075	1130	1185	1241	1296	1351	1407	
7855		1462	1517	1572	1628	1683	1738	1794	1849	1904	1959	
56		2015	2070	2125	2181	2236	2291	2346	2402	2457	2512	
57		2568	2623	2678	2733	2789	2844	2899	2954	3010	3065	
58		3120	3176	3231	3286	3341	3397	3452	3507	3562	3618	
59		3673	3728	3783	3839	3894	3949	4004	4060	4115	4170	
7860		4225	4281	4336	4391	4446	4502	4557	4612	4667	4723	
61		4778	4833	4888	4944	4999	5054	5109	5165	5220	5275	
62		5330	5386	5441	5496	5551	5607	5662	5717	5772	5828	
63		5883	5938	5993	6048	6104	6159	6214	6269	6325	6380	
64		6435	6490	6545	6601	6656	6711	6766	6822	6877	6932	
7865		6987	7042	7098	7153	7208	7263	7319	7374	7429	7484	
66		7539	7595	7650	7705	7760	7815	7871	7926	7981	8036	
67		8092	8147	8202	8257	8312	8368	8423	8478	8533	8588	
68		8644	8699	8754	8809	8864	8919	8975	9030	9085	9140	
69		9195	9251	9306	9361	9416	9471	9527	9582	9637	9692	
7870		9747	9803	9858	9913	9968	0023	0078	0134	0189	0244	
71	896	0299	0354	0409	0465	0520	0575	0630	0685	0741	0796	
72		0851	0906	0961	1016	1072	1127	1182	1237	1292	1347	
73		1403	1458	1513	1568	1623	1678	1733	1789	1844	1899	
74		1954	2009	2064	2120	2175	2230	2285	2340	2395	2450	
7875		2506	2561	2616	2671	2726	2781	2837	2892	2947	3002	
76		3057	3112	3167	3222	3278	3333	3388	3443	3498	3553	
77		3608	3664	3719	3774	3829	3884	3939	3994	4050	4105	
78		4160	4215	4270	4325	4380	4435	4491	4546	4601	4656	
79		4711	4766	4821	4876	4931	4987	5042	5097	5152	5207	
7880		5262	5317	5372	5428	5483	5538	5593	5648	5703	5758	
81		5813	5868	5923	5979	6034	6089	6144	6199	6254	6309	
82		6364	6419	6475	6530	6585	6640	6695	6750	6805	6860	
83		6915	6970	7025	7081	7136	7191	7246	7301	7356	7411	
84		7465	7521	7576	7631	7686	7742	7797	7852	7907	7962	
7885		8017	8072	8127	8182	8237	8292	8347	8403	8458	8513	
86		8568	8623	8678	8733	8788	8843	8898	8953	9008	9063	
87		9118	9173	9229	9284	9339	9394	9449	9504	9559	9614	
88		9669	9724	9779	9834	9889	9944	9999	0054	0109	0165	
89	897	0220	0275	0330	0385	0440	0495	0550	0605	0660	0715	
7890		0770	0825	0880	0935	0990	1045	1100	1155	1210	1265	
91		1320	1375	1431	1486	1541	1596	1651	1706	1761	1816	
92		1871	1926	1981	2036	2091	2146	2201	2256	2311	2366	
93		2421	2476	2531	2586	2641	2696	2751	2806	2861	2916	
94		2971	3026	3081	3136	3191	3246	3301	3356	3411	3466	
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96		4071	4126	4181	4236	4291	4346	4401	4456	4511	4566	
97		4621	4676	4731	4786	4841	4896	4951	5006	5061	5116	
98		5171	5226	5281	5336	5391	5446	5501	5556	5611	5666	
99		5721	5776	5831	5886	5941	5996	6051	6106	6161	6216	
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02		7370	7425	7480	7535	7590	7645	7700	7755	7810	7865
03		7920	7975	8030	8085	8140	8195	8250	8304	8359	8414
04		8469	8524	8579	8634	8689	8744	8799	8854	8909	8964
7905		9019	9074	9129	9184	9238	9293	9348	9403	9458	9513
06		9568	9623	9678	9733	9788	9843	9898	9953	0008	0062
07	898	0117	0172	0227	0282	0337	0392	0447	0502	0557	0612
08		0667	0722	0776	0831	0886	0941	0996	1051	1106	1161
09		1216	1271	1326	1380	1435	1490	1545	1600	1655	1710
7910		1765	1820	1875	1930	1984	2039	2094	2149	2204	2259
11		2314	2369	2424	2479	2533	2588	2643	2698	2753	2808
12		2863	2918	2973	3027	3082	3137	3192	3247	3302	3357
13		3412	3467	3521	3576	3631	3686	3741	3796	3851	3906
14		3960	4015	4070	4125	4180	4235	4290	4345	4399	4454
7915		4509	4564	4619	4674	4729	4784	4838	4893	4948	5003
16		5058	5113	5168	5222	5277	5332	5387	5442	5497	5552
17		5606	5661	5716	5771	5826	5881	5936	5990	6045	6100
18		6155	6210	6265	6320	6374	6429	6484	6539	6594	6649
19		6703	6758	6813	6868	6923	6978	7033	7087	7142	7197
7920		7252	7307	7361	7416	7471	7526	7581	7636	7690	7745
21		7800	7855	7910	7965	8019	8074	8129	8184	8239	8294
22		8348	8403	8458	8513	8568	8622	8677	8732	8787	8842
23		8897	8951	9006	9061	9116	9171	9225	9280	9335	9390
24		9445	9499	9554	9609	9664	9719	9774	9828	9883	9938
7925		9993	0048	0102	0157	0212	0267	0321	0376	0431	0486
26	899	0541	0595	0650	0705	0760	0815	0869	0924	0979	1034
27		1089	1143	1198	1253	1308	1363	1417	1472	1527	1582
28		1636	1691	1746	1801	1856	1910	1965	2020	2075	2129
29		2184	2239	2294	2348	2403	2458	2513	2568	2623	2677
7930		2732	2787	2841	2896	2951	3005	3060	3115	3170	3225
31		3279	3334	3389	3444	3499	3553	3608	3663	3718	3772
32		3827	3882	3937	3991	4046	4101	4156	4210	4265	4320
33		4375	4429	4484	4539	4594	4648	4703	4758	4812	4867
34		4922	4977	5031	5086	5141	5196	5250	5305	5360	5415
7935		5469	5524	5579	5634	5688	5743	5798	5852	5907	5962
36		6017	6071	6126	6181	6235	6290	6345	6400	6454	6509
37		6564	6619	6673	6728	6783	6837	6892	6947	7002	7056
38		7111	7166	7220	7275	7330	7384	7439	7494	7549	7603
39		7658	7713	7767	7822	7877	7932	7986	8041	8096	8150
7940		8205	8260	8314	8369	8424	8479	8533	8588	8643	8697
41		8752	8807	8861	8916	8971	9025	9080	9135	9189	9244
42		9299	9354	9408	9463	9518	9572	9627	9682	9736	9791
43		9846	9900	9955	0010	0064	0119	0174	0228	0283	0338
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7945		0939	0994	1048	1103	1158	1212	1267	1322	1376	1431
46		1486	1540	1595	1650	1704	1759	1814	1868	1923	1977
47		2032	2087	2141	2196	2251	2305	2359	2415	2469	2524
48		2579	2633	2688	2743	2797	2852	2906	2961	3016	3070
49		3125	3180	3234	3289	3344	3398	3453	3507	3562	3617
7950		3671	3726	3781	3835	3890	3944	3999	4054	4108	4163
51		4218	4272	4327	4381	4436	4491	4545	4600	4654	4709
52		4764	4818	4873	4928	4982	5037	5091	5146	5201	5255
53		5310	5364	5419	5474	5528	5583	5637	5692	5747	5801
54		5856	5910	5965	6020	6074	6129	6183	6238	6293	6347
7955		6402	6456	6511	6566	6620	6675	6729	6784	6839	6893
56		6948	7002	7057	7112	7166	7221	7275	7330	7384	7439
57		7494	7548	7603	7657	7712	7766	7821	7876	7930	7985
58		8039	8094	8148	8203	8258	8312	8367	8421	8476	8530
59		8585	8640	8694	8749	8803	8858	8912	8967	9022	9076
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63		0767	0822	0876	0931	0985	1040	1094	1149	1203	3 17
64		1313	1367	1422	1476	1531	1585	1640	1694	1749	4 22
7965		1858	1912	1967	2021	2076	2130	2185	2239	2294	5 28
66		2403	2458	2512	2567	2621	2676	2730	2785	2839	6 33
67		2948	3003	3057	3112	3166	3221	3275	3330	3384	7 39
68		3493	3548	3602	3657	3711	3766	3820	3875	3929	8 44
69		4038	4093	4147	4202	4256	4311	4365	4420	4474	9 50
7970		4583	4638	4692	4747	4801	4856	4910	4965	5019	5074
71		5123	5183	5237	5292	5346	5401	5455	5509	5564	5618
72		5673	5727	5782	5836	5891	5945	6000	6054	6109	6163
73		6218	6272	6327	6381	6436	6490	6544	6599	6653	6708
74		6762	6817	6871	6926	6980	7035	7089	7144	7198	7252
7975		7307	7361	7416	7470	7525	7579	7634	7688	7743	7797
76		7851	7906	7960	8015	8069	8124	8178	8233	8287	8341
77		8395	8450	8505	8559	8614	8668	8723	8777	8831	8886
78		8940	8995	9049	9104	9158	9212	9267	9321	9376	9430
79		9485	9539	9594	9648	9702	9757	9811	9866	9920	9974
7980	902	0029	0083	0138	0192	0247	0301	0355	0410	0464	0519
81		0573	0628	0682	0736	0791	0845	0900	0954	1008	1063
82		1117	1172	1226	1280	1335	1389	1444	1498	1552	1607
83		1661	1716	1770	1824	1879	1933	1988	2042	2096	2151
84		2205	2260	2314	2368	2423	2477	2532	2586	2640	2695
7985		2749	2804	2858	2912	2967	3021	3076	3130	3184	3239
86		3293	3347	3402	3456	3511	3565	3619	3674	3728	3782
87		3837	3891	3946	4000	4054	4109	4163	4217	4272	4326
88		4381	4435	4489	4544	4598	4652	4707	4761	4815	4870
89		4924	4979	5033	5087	5142	5196	5250	5305	5359	5413
7990		5468	5522	5577	5631	5685	5740	5794	5848	5903	5957
91		6011	6066	6120	6174	6229	6283	6337	6392	6446	6500
92		6555	6609	6663	6718	6772	6826	6881	6935	6989	7044
93		7098	7152	7207	7261	7315	7370	7424	7478	7533	7587
94		7641	7696	7750	7804	7859	7913	7967	8022	8076	8130
7995		8185	8239	8293	8348	8402	8456	8511	8565	8619	8674
96		8728	8782	8836	8891	8945	8999	9054	9108	9162	9217
97		9271	9325	9380	9434	9488	9542	9597	9651	9705	9760
98	903	9814	9868	9923	9977	0031	0085	0140	0194	0248	0303
99		0357	0411	0466	0520	0574	0628	0683	0737	0791	0846
8000		0900	0954	1008	1063	1117	1171	1226	1280	1334	1388
01		1443	1497	1551	1606	1660	1714	1768	1823	1877	1931
02		1985	2040	2094	2148	2203	2257	2311	2365	2420	2474
03		2528	2582	2637	2691	2745	2799	2854	2908	2962	3017
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06		4156	4210	4264	4319	4373	4427	4481	4536	4590	4644
07		4698	4753	4807	4861	4915	4969	5024	5078	5132	5186
08		5241	5295	5349	5403	5458	5512	5566	5620	5674	5729
09		5783	5837	5891	5946	6000	6054	6108	6163	6217	6271
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11		6867	6922	6976	7030	7084	7138	7193	7247	7301	7355
12		7409	7464	7518	7572	7626	7680	7735	7789	7843	7897
13		7951	8006	8060	8114	8168	8222	8277	8331	8385	8439
14		8493	8548	8602	8656	8710	8764	8819	8873	8927	8981
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17		0119	0173	0227	0281	0336	0390	0444	0498	0552	0606
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42	3641	3695	3749	3803	3857	3911	3965	4019	4073	4127	
43	4181	4235	4289	4343	4397	4451	4505	4559	4613	4667	
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46	5800	5854	5908	5962	6016	6070	6124	6178	6232	6286	
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48	6880	6934	6988	7042	7096	7149	7203	7257	7311	7365	
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72	9812	9865	9919	9973	0027	0081	0134	0188	0242	0296	
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76	1963	2017	2071	2124	2178	2232	2286	2340	2393	2447	
77	2501	2555	2608	2662	2716	2770	2823	2877	2931	2985	
78	3038	3092	3146	3200	3254	3307	3361	3415	3469	3522	
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83	5726	5780	5833	5887	5941	5994	6048	6102	6156	6209	3 16
84	6263	6317	6370	6424	6478	6532	6585	6639	6693	6747	4 22
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86	7337	7391	7445	7498	7552	7606	7660	7713	7767	7821	6 32
87	7874	7928	7982	8036	8089	8143	8197	8250	8304	8358	7 38
88	8411	8465	8519	8573	8626	8680	8734	8787	8841	8895	8 43
89	8948	9002	9056	9109	9163	9217	9270	9324	9378	9432	9 49
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91	908 0022	0076	0129	0183	0237	0290	0344	0398	0451	0505	
92	0559	0612	0666	0720	0773	0827	0881	0934	0988	1042	
93	1095	1149	1203	1256	1310	1364	1417	1471	1525	1578	
94	1632	1686	1739	1793	1847	1900	1954	2008	2061	2115	
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17	3955	4009	4062	4116	4169	4223	4276	4330	4383	4437	
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26	8768	8822	8875	8929	8982	9035	9089	9142	9196	9249	
27	9303	9356	9409	9463	9516	9570	9623	9677	9730	9784	
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62	7966	8019	8072	8126	8179	8232	8285	8338	8392	8445	
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07		1844	1897	1950	2003	2056	2109	2162	2215	2268	2321	7 37
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19		8190	8243	8295	8348	8401	8454	8507	8560	8613	8665	
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23		0303	0356	0409	0461	0514	0567	0620	0673	0725	0778	
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27		2415	2468	2521	2573	2626	2679	2732	2784	2837	2890	
28		2943	2995	3048	3101	3154	3207	3260	3312	3365	3418	
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53	927 0109	0160	0211	0263	0314	0366	0417	0468	0520	0571	
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8455	1136	1187	1239	1290	1342	1393	1444	1496	1547	1598	
56	1650	1701	1752	1804	1855	1907	1958	2009	2051	2112	
57	2163	2215	2266	2317	2369	2420	2471	2523	2574	2625	
58	2677	2728	2780	2831	2882	2934	2985	3036	3088	3139	
59	3190	3242	3293	3344	3396	3447	3498	3550	3601	3652	
8460	3704	3755	3806	3858	3909	3960	4012	4063	4114	4166	
61	4217	4268	4320	4371	4423	4474	4525	4576	4628	4679	
62	4730	4782	4833	4884	4935	4987	5038	5089	5141	5192	
63	5243	5295	5346	5397	5449	5500	5551	5603	5654	5705	
64	5757	5808	5859	5910	5962	6013	6064	6116	6167	6218	
8465	6270	6321	6372	6424	6475	6526	6577	6629	6680	6731	
66	6783	6834	6885	6937	6988	7039	7090	7142	7193	7244	
67	7296	7347	7398	7449	7501	7552	7603	7655	7706	7757	
68	7808	7860	7911	7962	8014	8065	8116	8167	8219	8270	
69	8321	8373	8424	8475	8526	8578	8629	8680	8732	8783	
8470	8834	8885	8937	8988	9039	9090	9142	9193	9244	9296	
71	9347	9398	9449	9501	9552	9603	9654	9706	9757	9808	
72	9859	9911	9962	0013	0065	0116	0167	0218	0270	0321	
73	928 0372	0423	0475	0526	0577	0628	0680	0731	0782	0833	
74	0885	0936	0987	1038	1090	1141	1192	1243	1295	1346	
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76	1909	1961	2012	2063	2114	2166	2217	2268	2319	2371	
77	2422	2473	2524	2576	2627	2678	2729	2780	2832	2883	
78	2934	2985	3037	3088	3139	3190	3241	3293	3344	3395	
79	3446	3498	3549	3600	3651	3702	3754	3805	3856	3907	
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81	4471	4522	4573	4624	4675	4727	4778	4829	4880	4931	
82	4983	5034	5085	5136	5187	5239	5290	5341	5392	5443	
83	5495	5546	5597	5648	5699	5751	5802	5853	5904	5955	
84	6007	6058	6109	6160	6211	6263	6314	6365	6416	6467	
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86	7030	7081	7133	7184	7235	7286	7337	7389	7440	7491	1 5
87	7542	7593	7644	7696	7747	7798	7849	7900	7951	8003	2 10
88	8054	8105	8156	8207	8258	8310	8361	8413	8463	8514	3 15
89	8565	8616	8668	8719	8770	8821	8872	8923	8975	9026	4 20
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91	9588	9640	9691	9742	9793	9844	9895	9946	9998	0049	6 31
92	0100	0151	0202	0253	0304	0356	0407	0458	0509	0560	7 36
93	0611	0662	0714	0765	0816	0867	0918	0969	1020	1071	8 41
94	1123	1174	1225	1276	1327	1378	1429	1480	1532	1583	9 46
8495	1634	1685	1736	1787	1838	1889	1941	1992	2043	2094	
96	2145	2196	2247	2298	2350	2401	2452	2503	2554	2605	
97	2656	2707	2758	2810	2861	2912	2963	3014	3065	3116	
98	3167	3218	3269	3321	3372	3423	3474	3525	3576	3627	
99	3678	3729	3780	3832	3883	3934	3985	4036	4087	4138	
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02		5211	5262	5313	5364	5415	5466	5517	5569	5620	5671
03		5722	5773	5824	5875	5926	5977	6028	6079	6130	6181
04		6233	6284	6335	6386	6437	6488	6539	6590	6641	6692
8505		6743	6794	6845	6896	6947	6998	7050	7101	7152	7203
06		7254	7305	7356	7407	7458	7509	7560	7611	7662	7713
07		7764	7815	7866	7917	7969	8020	8071	8122	8173	8224
08		8275	8326	8377	8428	8479	8530	8581	8632	8683	8734
09		8785	8836	8887	8938	8989	9040	9091	9142	9194	9245
8510		9296	9347	9398	9449	9500	9551	9602	9653	9704	9755
11	930	9806	9857	9908	9959	0010	0061	0112	0163	0214	0265
12		0316	0367	0418	0469	0520	0571	0622	0673	0724	0775
13		0826	0877	0928	0979	1030	1081	1132	1183	1234	1285
14		1336	1387	1438	1489	1540	1591	1643	1694	1745	1796
8515		1847	1898	1949	2000	2051	2102	2153	2204	2255	2306
16		2357	2408	2459	2510	2561	2612	2663	2714	2764	2815
17		2866	2917	2968	3019	3070	3121	3172	3223	3274	3325
18		3376	3427	3478	3529	3580	3631	3682	3733	3784	3835
19		3886	3937	3988	4039	4090	4141	4192	4243	4294	4345
8520		4396	4447	4498	4549	4600	4651	4702	4753	4804	4855
21		4906	4957	5008	5059	5110	5160	5211	5262	5313	5364
22		5415	5466	5517	5568	5619	5670	5721	5772	5823	5874
23		5925	5976	6027	6078	6129	6180	6231	6282	6333	6384
24		6434	6485	6536	6587	6638	6689	6740	6791	6842	6893
8525		6944	6995	7046	7097	7148	7199	7250	7300	7351	7402
26		7453	7504	7555	7606	7657	7708	7759	7810	7861	7912
27		7963	8014	8064	8115	8166	8217	8268	8319	8370	8421
28		8472	8523	8574	8625	8676	8727	8777	8828	8879	8930
29		8981	9032	9083	9134	9185	9236	9287	9338	9389	9439
8530		9490	9541	9592	9643	9694	9745	9796	9847	9898	9949
31	931	9999	0050	0101	0152	0203	0254	0305	0356	0407	0458
32		0508	0559	0610	0661	0712	0763	0814	0865	0916	0967
33		1017	1068	1119	1170	1221	1272	1323	1374	1425	1476
34		1526	1577	1628	1679	1730	1781	1832	1883	1933	1984
8535		2035	2086	2137	2188	2239	2290	2341	2391	2442	2493
36		2544	2595	2646	2697	2748	2798	2849	2900	2951	3002
37		3053	3104	3155	3206	3256	3307	3358	3409	3460	3511
38		3562	3612	3663	3714	3765	3816	3867	3918	3968	4019
39		4070	4121	4172	4223	4274	4324	4375	4426	4477	4528
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41		5087	5138	5189	5240	5291	5341	5392	5443	5494	5545
42		5595	5646	5697	5748	5799	5850	5901	5952	6002	6053
43		6104	6155	6206	6257	6307	6358	6409	6460	6511	6562
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46		7629	7680	7731	7781	7832	7883	7934	7985	8036	8086
47		8137	8188	8239	8289	8340	8391	8442	8493	8544	8594
48		8645	8696	8747	8798	8848	8899	8950	9001	9052	9102
49		9153	9204	9255	9306	9356	9407	9458	9509	9560	9610
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51	932	0169	0220	0271	0321	0372	0423	0474	0525	0575	0626
52		0677	0728	0778	0829	0880	0931	0982	1032	1083	1134
53		1185	1235	1286	1337	1388	1439	1489	1540	1591	1642
54		1692	1743	1794	1845	1896	1946	1997	2048	2099	2149
8555		2200	2251	2302	2352	2403	2454	2505	2555	2606	2657
56		2708	2759	2809	2860	2911	2962	3012	3063	3114	3165
57		3215	3266	3317	3368	3418	3469	3520	3571	3621	3672
58		3723	3774	3824	3875	3926	3977	4027	4078	4129	4180
59		4230	4281	4332	4382	4433	4484	4535	4585	4636	4687
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62		5752	5803	5854	5904	5955	6006	6057	6107	6158	2 10
63		6259	6310	6361	6412	6462	6513	6564	6614	6665	3 15
64		6767	6817	6868	6919	6969	7020	7071	7122	7172	4 20
8565		7274	7324	7375	7426	7476	7527	7578	7629	7679	5 26
66		7781	7831	7882	7933	7983	8034	8085	8136	8186	6 31
67		8288	8338	8389	8440	8490	8541	8592	8643	8693	7 36
68		8795	8845	8896	8947	8997	9048	9099	9149	9200	8 41
69		9301	9352	9403	9453	9504	9555	9606	9656	9707	9 46
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71	933	0315	0366	0416	0467	0518	0568	0619	0670	0720	0264
72		0822	0872	0923	0974	1024	1075	1126	1176	1227	0771
73		1328	1379	1430	1480	1531	1582	1632	1683	1733	1278
74		1835	1885	1936	1987	2037	2088	2139	2189	2240	1784
8575		2341	2392	2443	2493	2544	2595	2645	2696	2746	2291
76		2848	2898	2949	3000	3050	3101	3152	3202	3253	2797
77		3354	3405	3455	3506	3557	3607	3658	3709	3759	3303
78		3860	3911	3962	4012	4063	4114	4164	4215	4265	3810
79		4367	4417	4468	4519	4569	4620	4670	4721	4772	4316
8580		4873	4923	4974	5025	5075	5126	5177	5227	5278	4822
81		5379	5430	5480	5531	5581	5632	5683	5733	5784	5328
82		5885	5936	5986	6037	6088	6138	6189	6239	6290	5834
83		6391	6442	6492	6543	6594	6644	6695	6745	6796	6341
84		6897	6948	6998	7049	7099	7150	7201	7251	7302	6846
8585		7403	7454	7504	7555	7605	7656	7707	7757	7808	7352
86		7909	7959	8010	8061	8111	8162	8212	8263	8313	7858
87		8415	8466	8516	8566	8617	8668	8718	8769	8819	8364
88		8920	8971	9021	9072	9123	9173	9224	9274	9325	8870
89		9426	9477	9527	9578	9628	9679	9729	9780	9831	9375
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91	934	0437	0488	0538	0589	0639	0690	0740	0791	0842	
92		0943	0993	1044	1094	1145	1195	1246	1296	1347	0387
93		1448	1499	1549	1600	1650	1701	1751	1802	1852	0892
94		1953	2004	2055	2105	2156	2206	2257	2307	2358	1398
8595		2459	2509	2550	2610	2661	2711	2762	2812	2863	1903
96		2964	3015	3065	3116	3166	3217	3267	3318	3368	2408
97		3469	3520	3570	3621	3671	3722	3772	3823	3874	2914
98		3974	4025	4075	4126	4176	4227	4277	4328	4378	3419
99		4479	4530	4580	4631	4682	4732	4783	4833	4884	3924
8600		4985	5035	5086	5136	5187	5237	5287	5338	5388	4429
01		5489	5540	5590	5641	5691	5742	5792	5843	5893	4934
02		5994	6045	6095	6145	6196	6247	6297	6348	6398	5439
03		6499	6550	6600	6651	6701	6752	6802	6853	6903	5944
04		7004	7054	7105	7155	7206	7256	7307	7357	7408	6449
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06		8013	8064	8114	8165	8215	8266	8316	8367	8417	7458
07		8518	8568	8619	8669	8720	8770	8821	8871	8922	7963
08		9023	9073	9123	9174	9224	9275	9325	9376	9426	8468
09		9527	9578	9628	9678	9729	9779	9830	9880	9931	8972
8610	935	0032	0082	0132	0183	0233	0284	0334	0385	0435	9477
11		0536	0586	0637	0687	0738	0788	0838	0889	0939	9981
12		1040	1091	1141	1191	1242	1292	1343	1393	1444	
13		1544	1595	1645	1696	1746	1797	1847	1897	1948	1494
14		2049	2099	2150	2200	2250	2301	2351	2402	2452	1998
8615		2553	2603	2654	2704	2754	2805	2855	2906	2956	2502
16		3057	3107	3158	3208	3259	3309	3359	3410	3460	3006
17		3561	3611	3662	3712	3763	3813	3863	3914	3964	3511
18		4065	4115	4166	4216	4266	4317	4367	4418	4468	4015
19		4569	4619	4670	4720	4770	4821	4871	4922	4972	4518
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22	6080	6131	6181	6231	6282	6332	6382	6433	6483	6533	2 10
23	6584	6634	6685	6735	6785	6836	6886	6936	6987	7037	3 15
24	7087	7138	7188	7239	7289	7339	7390	7440	7490	7541	4 20
8625	7591	7641	7692	7742	7792	7843	7893	7943	7994	8044	5 25
25	8095	8145	8195	8245	8295	8346	8397	8447	8497	8548	6 31
27	8598	8648	8699	8749	8799	8850	8900	8950	9001	9051	7 36
28	9101	9152	9202	9252	9303	9353	9403	9454	9504	9554	8 41
29	9555	9605	9655	9705	9755	9805	9856	9907	9957	0007	9 46
8630	0108	0158	0208	0259	0309	0360	0410	0460	0511	0561	
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33	1617	1668	1718	1768	1819	1869	1919	1970	2020	2070	
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35	3126	3177	3227	3277	3327	3378	3428	3478	3529	3579	
37	3629	3679	3730	3780	3830	3881	3931	3981	4031	4082	
38	4132	4182	4233	4283	4333	4383	4434	4484	4534	4584	
39	4635	4685	4735	4785	4836	4886	4936	4987	5037	5087	
8640	5137	5188	5238	5288	5338	5389	5439	5489	5540	5590	
41	5640	5690	5741	5791	5841	5891	5942	5992	6042	6092	
42	6143	6193	6243	6293	6344	6394	6444	6494	6545	6595	
43	6645	6695	6745	6795	6846	6896	6947	6997	7047	7097	
44	7148	7198	7248	7298	7349	7399	7449	7499	7550	7600	
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46	8152	8203	8253	8303	8353	8403	8454	8504	8554	8604	
47	8655	8705	8755	8805	8855	8906	8956	9006	9056	9107	
48	9157	9207	9257	9307	9358	9408	9458	9508	9559	9609	
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52	1165	1215	1265	1316	1366	1416	1466	1516	1567	1617	
53	1667	1717	1767	1818	1868	1918	1968	2018	2069	2119	
54	2169	2219	2269	2319	2370	2420	2470	2520	2570	2621	
8655	2671	2721	2771	2821	2871	2922	2972	3022	3072	3122	
55	3172	3223	3273	3323	3373	3423	3474	3524	3574	3624	
57	3674	3724	3775	3825	3875	3925	3975	4025	4075	4126	
58	4176	4226	4276	4326	4376	4427	4477	4527	4577	4627	
59	4677	4728	4778	4828	4878	4928	4978	5028	5079	5129	
8660	5179	5229	5279	5329	5380	5430	5480	5530	5580	5630	
61	5680	5731	5781	5831	5881	5931	5981	6031	6082	6132	
62	6182	6232	6282	6332	6382	6432	6483	6533	6583	6633	
63	6633	6683	6733	6783	6834	6884	6934	6984	7034	7084	
64	7184	7235	7285	7335	7385	7435	7485	7535	7585	7636	
8665	7686	7736	7786	7836	7886	7936	7986	8037	8087	8137	
65	8187	8237	8287	8337	8387	8437	8488	8538	8588	8638	
67	8688	8738	8788	8838	8888	8939	8989	9039	9089	9139	
68	9189	9239	9289	9339	9389	9440	9490	9540	9590	9640	
69	9690	9740	9790	9840	9890	9941	9991	0041	0091	0141	
8670	0191	0241	0291	0341	0391	0441	0492	0542	0592	0642	
71	0692	0742	0792	0842	0892	0942	0992	1042	1093	1143	
72	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	
73	1693	1744	1794	1844	1894	1944	1994	2044	2094	2144	
74	2194	2244	2294	2344	2394	2445	2495	2545	2595	2645	
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75	3195	3245	3295	3346	3395	3446	3495	3546	3596	3646	
77	3696	3746	3796	3846	3896	3946	3996	4046	4096	4146	
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N. 868.

Log. 938.

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83		6698	6748	6798	6848	6898	6948	6998	7048	7098	7148
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91		0698	0747	0797	0847	0897	0947	0997	1047	1097	1147
92		1197	1247	1297	1347	1397	1447	1497	1547	1597	1647
93		1697	1747	1797	1847	1897	1947	1997	2046	2096	2146
94		2196	2246	2296	2346	2396	2446	2496	2546	2596	2646
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96		3195	3245	3295	3345	3395	3445	3495	3545	3595	3645
97		3695	3745	3795	3845	3895	3944	3994	4044	4094	4144
98		4194	4244	4294	4344	4394	4444	4494	4544	4593	4643
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8700		5193	5242	5292	5342	5392	5442	5492	5542	5592	5642
01		5692	5742	5792	5841	5891	5941	5991	6041	6091	6141
02		6191	6241	6291	6341	6390	6440	6490	6540	6590	6640
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04		7189	7239	7289	7339	7388	7438	7488	7538	7588	7638
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06		8187	8237	8286	8336	8386	8436	8486	8536	8586	8636
07		8685	8735	8785	8835	8885	8935	8985	9035	9084	9134
08		9134	9234	9284	9334	9384	9434	9483	9533	9583	9633
09	940	9683	9733	9783	9833	9882	9932	9982	0032	0082	0132
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22		6161	6211	6259	6310	6360	6410	6460	6509	6559	6609
23		6659	6709	6758	6808	6858	6908	6957	7007	7057	7107
24		7157	7206	7256	7306	7356	7405	7455	7505	7555	7605
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32		1137	1187	1237	1286	1336	1385	1435	1485	1535	1585
33		1635	1684	1734	1784	1834	1883	1933	1983	2032	2082
34		2132	2182	2231	2281	2331	2380	2430	2480	2530	2579
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36		3126	3176	3226	3275	3325	3375	3425	3474	3524	3574
37		3623	3673	3723	3772	3822	3872	3922	3971	4021	4071
38		4120	4170	4220	4270	4319	4369	4419	4468	4518	4568
39		4617	4667	4717	4766	4816	4866	4916	4965	5015	5065
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44	7101	7151	7201	7250	7300	7350	7399	7449	7499	7548	4 20
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54	2065	2115	2165	2214	2264	2313	2363	2413	2462	2512	
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63	6528	6578	6627	6677	6726	6776	6825	6875	6925	6974	
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66	8015	8064	8114	8163	8213	8262	8312	8361	8411	8461	
67	8510	8560	8609	8659	8708	8758	8807	8857	8906	8956	
68	9005	9055	9104	9154	9204	9253	9303	9352	9402	9451	
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86	7912	7961	8011	8060	8110	8159	8209	8258	8307	8357	
87	8406	8456	8505	8555	8604	8653	8703	8752	8802	8851	
88	8900	8950	8999	9049	9098	9148	9197	9246	9296	9345	
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93	1371	1420	1470	1519	1568	1618	1667	1716	1766	1815	
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98	3840	3889	3938	3988	4037	4086	4136	4185	4234	4284	
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04		6800	6850	6899	6948	6998	7047	7095	7146	7195	4 20
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06		7787	7836	7885	7935	7984	8033	8083	8132	8181	6 30
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08		8773	8822	8872	8921	8970	9020	9069	9118	9167	8 40
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18		3701	3750	3799	3849	3898	3947	3996	4046	4095	
19		4193	4243	4292	4341	4390	4440	4489	4538	4587	
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21		5178	5227	5277	5326	5375	5424	5474	5523	5572	
22		5671	5720	5769	5818	5867	5917	5966	6015	6064	
23		6163	6212	6261	6310	6360	6409	6458	6507	6557	
24		6655	6704	6753	6803	6852	6901	6950	7000	7049	
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27		8131	8180	8230	8279	8328	8377	8426	8476	8525	
28		8623	8672	8722	8771	8820	8869	8918	8968	9017	
29		9115	9164	9214	9263	9312	9361	9410	9459	9509	
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36		2557	2606	2655	2705	2754	2803	2852	2901	2950	
37		3049	3098	3147	3196	3245	3294	3343	3393	3442	
38		3540	3589	3638	3687	3737	3786	3835	3884	3933	
39		4031	4080	4130	4179	4228	4277	4326	4375	4424	
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41		5014	5063	5112	5161	5210	5260	5309	5358	5407	
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46		7469	7518	7568	7617	7666	7715	7764	7813	7862	
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82		5108	5157	5206	5255	5303	5352	5401	5450	5499	5548	
83		5597	5646	5694	5743	5792	5841	5890	5939	5988	6037	
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16		1701	1749	1798	1847	1895	1944	1993	2042	2090	2139	
17		2188	2236	2285	2334	2382	2431	2480	2529	2577	2626	
18		2675	2723	2772	2821	2869	2918	2967	3016	3064	3113	
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21		4135	4184	4233	4281	4330	4379	4427	4476	4525	4574	1 5
22		4622	4671	4720	4768	4817	4866	4914	4963	5012	5060	2 10
23		5109	5158	5206	5255	5304	5352	5401	5450	5498	5547	3 15
24		5536	5584	5633	5682	5730	5779	5828	5876	5925	6034	4 20
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26		6569	6617	6666	6715	6763	6812	6861	6909	6958	7007	6 29
27		7055	7104	7153	7201	7250	7299	7347	7396	7445	7493	7 34
28		7542	7590	7639	7688	7736	7785	7834	7882	7931	7980	8 39
29		8028	8077	8126	8174	8223	8271	8320	8369	8417	8466	9 44
8930		8515	8563	8612	8660	8709	8758	8806	8855	8904	8952	
31		9001	9050	9098	9147	9195	9244	9293	9341	9390	9439	
32		9487	9535	9584	9632	9682	9730	9779	9827	9876	9925	
33		9973	0022	0071	0119	0168	0216	0265	0314	0362	0411	
34	951	0459	0508	0557	0605	0654	0703	0751	0800	0848	0897	
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36		1432	1480	1529	1577	1626	1675	1723	1772	1820	1869	
37		1918	1966	2015	2063	2112	2161	2209	2258	2306	2355	
38		2404	2452	2501	2549	2598	2646	2695	2744	2792	2841	
39		2889	2938	2987	3035	3084	3132	3181	3229	3278	3327	
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41		3861	3910	3958	4007	4055	4104	4152	4201	4250	4298	
42		4347	4395	4444	4492	4541	4589	4638	4687	4735	4784	
43		4832	4881	4929	4978	5027	5075	5124	5172	5221	5269	
44		5318	5366	5415	5464	5512	5561	5609	5658	5706	5755	
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46		6289	6337	6386	6435	6483	6532	6580	6629	6677	6726	
47		6774	6823	6871	6920	6969	7017	7066	7114	7163	7211	
48		7260	7308	7357	7405	7454	7502	7551	7599	7648	7697	
49		7745	7794	7842	7891	7939	7988	8036	8085	8133	8182	
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51		8716	8764	8813	8861	8910	8958	9007	9055	9104	9152	
52		9201	9249	9298	9346	9395	9443	9492	9540	9589	9637	
53		9686	9734	9783	9831	9880	9928	9977	0025	0074	0122	
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56		1141	1189	1238	1286	1335	1383	1432	1480	1529	1577	
57		1626	1674	1723	1771	1820	1868	1917	1965	2014	2062	
58		2111	2159	2208	2256	2305	2353	2401	2450	2498	2547	
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63		4534	4582	4631	4679	4728	4776	4825	4873	4922	4970	
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66		5987	6036	6084	6133	6181	6230	6278	6326	6375	6423	
67		6472	6520	6569	6617	6665	6714	6762	6811	6859	6908	
68		6956	7004	7053	7101	7150	7198	7247	7295	7343	7392	
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71		8409	8457	8505	8554	8602	8651	8699	8747	8796	8844	
72		8893	8941	8989	9038	9086	9135	9183	9231	9280	9328	
73		9377	9425	9473	9522	9570	9619	9667	9715	9764	9812	
74	953	9861	9909	9957	0006	0054	0103	0151	0199	0248	0296	
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76		0828	0877	0925	0974	1022	1070	1119	1167	1215	1264	
77		1312	1361	1409	1457	1506	1554	1603	1651	1699	1748	
78		1795	1844	1893	1941	1989	2038	2086	2135	2183	2231	
79		2280	2328	2376	2425	2473	2522	2570	2618	2667	2715	
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82	3731	3779	3827	3876	3924	3972	4021	4069	4117	4166	2 10
83	4214	4262	4311	4359	4407	4456	4504	4552	4601	4649	3 15
84	4697	4746	4794	4842	4891	4939	4987	5036	5084	5132	4 20
8985	5181	5229	5277	5326	5374	5422	5471	5519	5567	5616	5 25
86	5664	5712	5761	5809	5857	5905	5954	6002	6051	6099	6 29
87	6147	6196	6244	6292	6341	6389	6437	6486	6534	6582	7 34
88	6631	6679	6727	6776	6824	6872	6921	6969	7017	7065	8 39
89	7114	7162	7210	7259	7307	7356	7404	7452	7500	7549	9 44
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91	8080	8128	8177	8225	8273	8321	8370	8418	8466	8515	
92	8563	8611	8660	8708	8756	8804	8853	8901	8949	8998	
93	9046	9094	9143	9191	9239	9287	9335	9384	9432	9481	
94	9529	9577	9625	9674	9722	9770	9819	9867	9915	9963	
8995	954 0012	0060	0108	0157	0205	0253	0301	0350	0398	0446	
96	0494	0543	0591	0639	0688	0736	0784	0832	0881	0929	
97	0977	1025	1074	1122	1170	1219	1267	1315	1363	1412	
98	1460	1508	1556	1605	1653	1701	1749	1798	1846	1894	
99	1943	1991	2039	2087	2136	2184	2232	2280	2329	2377	
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02	3390	3438	3487	3535	3583	3631	3680	3728	3776	3824	
03	3873	3921	3969	4017	4065	4114	4162	4210	4258	4307	
04	4355	4403	4451	4500	4548	4596	4644	4692	4741	4789	
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06	5319	5368	5416	5464	5512	5561	5609	5657	5705	5753	
07	5802	5850	5898	5946	5994	6043	6091	6139	6187	6236	
08	6284	6332	6380	6428	6477	6525	6573	6621	6669	6718	
09	6766	6814	6862	6910	6959	7007	7055	7103	7152	7200	
9010	7248	7296	7344	7393	7441	7489	7537	7585	7634	7682	
11	7730	7778	7826	7874	7923	7971	8019	8067	8115	8164	
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13	8694	8742	8790	8838	8886	8935	8983	9031	9079	9127	
14	9176	9224	9272	9320	9368	9416	9465	9513	9561	9609	
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16	0139	0187	0235	0284	0332	0380	0428	0476	0524	0573	
17	0621	0669	0717	0765	0813	0862	0910	0958	1006	1054	
18	1102	1150	1199	1247	1295	1343	1391	1439	1488	1536	
19	1584	1632	1680	1728	1776	1825	1873	1921	1969	2017	
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21	2547	2595	2643	2691	2739	2788	2836	2884	2932	2980	
22	3028	3076	3125	3173	3221	3269	3317	3365	3413	3461	
23	3510	3558	3606	3654	3702	3750	3798	3846	3895	3943	
24	3991	4039	4087	4135	4183	4231	4280	4328	4376	4424	
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26	4953	5001	5049	5098	5146	5194	5242	5290	5338	5386	
27	5434	5483	5531	5579	5627	5675	5723	5771	5819	5867	
28	5916	5964	6012	6060	6108	6156	6204	6253	6300	6348	
29	6397	6445	6493	6541	6589	6637	6685	6733	6781	6829	
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31	7358	7407	7455	7503	7551	7599	7647	7695	7743	7791	
32	7839	7887	7935	7984	8032	8080	8128	8176	8224	8272	
33	8320	8368	8416	8464	8512	8560	8609	8657	8705	8753	
34	8801	8849	8897	8945	8993	9041	9089	9137	9185	9234	
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38	0723	0771	0819	0868	0916	0964	1012	1060	1108	1156	
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41		2165	2213	2261	2309	2357	2405	2453	2501	2549	1 5
42		2645	2693	2741	2789	2837	2885	2933	2981	3029	2 10
43		3125	3173	3221	3269	3317	3365	3413	3461	3509	3 14
44		3606	3654	3702	3750	3798	3846	3894	3942	3990	4 19
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46		4566	4614	4662	4710	4758	4805	4854	4902	4950	6 29
47		5046	5094	5142	5190	5238	5285	5334	5382	5430	7 34
48		5526	5574	5622	5670	5718	5766	5814	5862	5910	8 38
49		6006	6054	6102	6150	6198	6246	6294	6342	6390	9 43
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51		6966	7014	7062	7110	7158	7206	7254	7302	7349	
52		7445	7493	7541	7589	7637	7685	7733	7781	7829	
53		7925	7973	8021	8069	8117	8165	8213	8261	8309	
54		8405	8453	8501	8549	8597	8645	8693	8741	8789	
9055		8885	8933	8980	9028	9076	9124	9172	9220	9268	
56		9364	9412	9460	9508	9556	9604	9652	9700	9748	
57	957	9844	9892	9940	9988	0036	0083	0131	0179	0227	
58		0323	0371	0419	0467	0515	0563	0611	0659	0707	
59		0803	0851	0898	0946	0994	1042	1090	1138	1186	
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61		1761	1809	1857	1905	1953	2001	2049	2097	2145	
62		2241	2289	2336	2384	2432	2480	2528	2576	2624	
63		2720	2768	2816	2864	2911	2959	3007	3055	3103	
64		3199	3247	3295	3343	3391	3439	3486	3534	3582	
9065		3678	3726	3774	3822	3870	3918	3966	4013	4061	
66		4157	4205	4253	4301	4349	4397	4445	4492	4540	
67		4636	4684	4732	4780	4828	4876	4924	4971	5019	
68		5115	5163	5211	5259	5307	5355	5402	5450	5498	
69		5594	5642	5690	5738	5786	5833	5881	5929	5977	
9070		6073	6121	6169	6217	6264	6312	6360	6408	6456	
71		6552	6600	6647	6695	6743	6791	6839	6887	6935	
72		7030	7078	7126	7174	7222	7270	7318	7366	7413	
73		7509	7557	7605	7653	7701	7748	7796	7844	7892	
74		7988	8036	8083	8131	8179	8227	8275	8323	8371	
9075		8466	8514	8562	8610	8658	8706	8753	8801	8849	
76		8945	8993	9041	9088	9136	9184	9232	9280	9328	
77		9423	9471	9519	9567	9615	9663	9710	9758	9806	
78	953	9902	9950	9997	0045	0093	0141	0189	0237	0284	
79		0380	0428	0476	0524	0571	0619	0667	0715	0763	
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81		1337	1385	1432	1480	1528	1576	1624	1672	1719	
82		1815	1863	1911	1958	2006	2054	2102	2150	2198	
83		2293	2341	2389	2437	2484	2532	2580	2628	2676	
84		2771	2819	2867	2915	2962	3010	3058	3106	3154	
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86		3727	3775	3823	3871	3919	3966	4014	4062	4110	
87		4205	4253	4301	4349	4396	4444	4492	4540	4588	
88		4683	4731	4779	4827	4874	4922	4970	5018	5065	
89		5161	5209	5257	5304	5352	5400	5448	5495	5543	
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91		6117	6165	6212	6260	6308	6355	6403	6451	6499	
92		6594	6642	6690	6738	6785	6833	6881	6929	6976	
93		7072	7120	7167	7215	7263	7311	7358	7406	7454	
94		7542	7590	7637	7685	7733	7781	7828	7876	7924	
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96		8505	8552	8600	8648	8695	8743	8791	8838	8886	
97		8982	9030	9077	9125	9173	9221	9268	9316	9364	
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07	3753	3801	3849	3896	3944	3992	4039	4087	4135	4183	34
08	4230	4278	4326	4373	4421	4469	4516	4564	4612	4659	38
09	4707	4755	4802	4850	4898	4945	4993	5041	5088	5136	43
9110	5184	5231	5279	5327	5374	5422	5470	5517	5565	5613	
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12	6137	6185	6232	6280	6328	6375	6423	6471	6518	6566	
13	6614	6661	6709	6757	6804	6852	6900	6947	6995	7043	
14	7090	7138	7186	7233	7281	7328	7376	7424	7471	7519	
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17	8520	8567	8615	8662	8710	8758	8805	8853	8901	8948	
18	8996	9044	9091	9139	9186	9234	9282	9329	9377	9425	
19	9472	9520	9567	9615	9663	9710	9758	9806	9853	9901	
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22	0901	0948	0996	1044	1091	1139	1186	1234	1282	1329	
23	1377	1424	1472	1520	1567	1615	1662	1710	1758	1805	
24	1853	1900	1948	1996	2043	2091	2138	2186	2234	2281	
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26	2805	2852	2900	2947	2995	3043	3090	3138	3185	3233	
27	3281	3328	3376	3423	3471	3518	3566	3614	3661	3709	
28	3756	3804	3851	3899	3947	3994	4042	4089	4137	4184	
29	4232	4280	4327	4375	4422	4470	4517	4565	4613	4660	
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31	5183	5231	5279	5325	5374	5421	5469	5516	5564	5611	
32	5659	5707	5754	5802	5849	5897	5944	5992	6039	6087	
33	6136	6182	6230	6277	6325	6372	6420	6467	6515	6563	
34	6610	6658	6705	6753	6800	6848	6895	6943	6990	7038	
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36	7551	7608	7656	7704	7751	7799	7846	7894	7941	7989	
37	8036	8084	8131	8179	8226	8274	8321	8369	8416	8464	
38	8512	8559	8607	8654	8702	8749	8797	8844	8892	8939	
39	8987	9034	9082	9129	9177	9224	9272	9319	9367	9414	
9140	9462	9509	9557	9605	9652	9700	9747	9795	9842	9890	
41	9937	9985	0032	0080	0127	0175	0222	0270	0317	0365	
42	0412	0460	0507	0555	0602	0650	0697	0745	0792	0840	
43	0887	0935	0982	1030	1077	1125	1172	1220	1267	1315	
44	1362	1410	1457	1505	1552	1600	1647	1695	1742	1790	
9145	1837	1885	1932	1980	2027	2075	2122	2170	2217	2264	
46	2312	2359	2407	2454	2502	2549	2597	2644	2692	2739	
47	2787	2834	2882	2929	2977	3024	3072	3119	3167	3214	
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49	3736	3784	3831	3879	3926	3974	4021	4069	4116	4163	
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51	4686	4733	4780	4828	4875	4923	4970	5018	5065	5113	
52	5160	5208	5255	5302	5350	5397	5445	5492	5540	5587	
53	5635	5682	5730	5777	5824	5872	5919	5967	6014	6062	
54	6109	6157	6204	6251	6299	6346	6394	6441	6489	6536	
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76	6534	6581	6629	6676	6723	6771	6818	6865	6913	6960		
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78	7481	7528	7575	7622	7670	7717	7764	7812	7859	7906		
79	7954	8001	8048	8095	8143	8190	8238	8285	8332	8380		
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81	8900	8947	8994	9042	9089	9136	9184	9231	9278	9326		
82	9373	9420	9467	9515	9562	9609	9657	9704	9751	9799		
83	9846	9893	9940	9988	0035	0082	0130	0177	0224	0271		
84	0319	0366	0413	0461	0508	0555	0602	0650	0697	0744		
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87	1737	1784	1832	1879	1926	1974	2021	2068	2115	2163		
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91	3628	3675	3722	3769	3817	3864	3911	3958	4006	4053		
92	4100	4147	4195	4242	4289	4336	4384	4431	4478	4525		
93	4573	4620	4667	4714	4762	4809	4856	4903	4951	4998		
94	5045	5092	5139	5187	5234	5281	5328	5376	5423	5470		
9195	5517	5565	5612	5659	5706	5753	5801	5848	5895	5942		
96	5990	6037	6084	6131	6179	6225	6273	6320	6367	6415		
97	6452	6500	6546	6604	6651	6698	6745	6792	6840	6887		
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14	4482	4529	4576	4623	4671	4718	4765	4812	4859	4906		
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16	5425	5472	5519	5566	5613	5660	5707	5755	5802	5849		
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27	0605	0652	0699	0746	0793	0841	0888	0935	0982	1029	7 33
28	1076	1123	1170	1217	1264	1311	1358	1405	1452	1499	8 38
29	1546	1594	1641	1688	1735	1782	1829	1876	1923	1970	9 42
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37	5309	5356	5403	5450	5497	5545	5592	5639	5686	5733	
38	5780	5827	5874	5921	5968	6015	6062	6109	6156	6203	
39	6250	6297	6344	6391	6438	6485	6532	6579	6626	6673	
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41	7190	7237	7284	7331	7378	7425	7472	7519	7566	7613	
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43	8130	8177	8224	8270	8317	8364	8411	8458	8505	8552	
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82	6416	6462	6509	6556	6603	6650	6696	6743	6789	6836	4
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86	8755	8802	8849	8895	8942	8989	9035	9082	9129	9175	6
87	9223	9270	9316	9362	9409	9456	9503	9549	9596	9643	7
88	9690	9736	9783	9830	9877	9923	9970	10017	10064	10110	8
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91	0625	0671	0718	0765	0812	0859	0905	0952	0999	1045	42
92	1092	1139	1185	1232	1279	1326	1372	1419	1466	1513	
93	1559	1606	1653	1700	1746	1793	1840	1886	1933	1980	
94	2027	2073	2120	2167	2214	2260	2307	2354	2400	2447	
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98	3895	3942	3989	4036	4082	4129	4176	4222	4269	4316	
99	4362	4409	4456	4503	4549	4596	4643	4689	4736	4783	
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02	5763	5810	5857	5903	5950	5997	6043	6090	6137	6184	
03	6230	6277	6324	6370	6417	6464	6510	6557	6604	6650	
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47		6722	6769	6815	6862	6908	6955	7001	7048	7094	7141	7 33
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79		1565	1612	1658	1704	1751	1797	1843	1889	1936	1982	
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84		3880	3926	3973	4019	4065	4111	4158	4204	4250	4296	
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91		7118	7165	7211	7257	7303	7350	7396	7442	7488	7535	
92		7581	7627	7673	7720	7766	7812	7858	7905	7951	7997	
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17		9126	9172	9218	9264	9310	9356	9402	9449	9495	9541
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23		1892	1938	1984	2030	2076	2122	2168	2215	2261	2307
24		2353	2399	2445	2491	2537	2583	2629	2675	2721	2768
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27		3735	3781	3827	3873	3919	3965	4011	4058	4104	4150
28		4196	4242	4288	4334	4380	4426	4472	4518	4564	4610
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31		5577	5623	5670	5716	5762	5808	5854	5900	5946	5992
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33		6498	6544	6590	6636	6683	6729	6775	6821	6867	6913
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37		8340	8386	8432	8478	8524	8570	8616	8662	8708	8754
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39		9260	9306	9352	9398	9444	9490	9536	9582	9628	9674
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43		1100	1146	1192	1238	1284	1330	1376	1422	1468	1514
44		1560	1606	1652	1698	1744	1790	1836	1882	1928	1974
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46		2479	2525	2571	2617	2663	2709	2755	2801	2847	2893
47		2939	2985	3031	3077	3123	3169	3215	3261	3307	3353
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52		5237	5283	5329	5375	5421	5467	5513	5559	5605	5651
53		5697	5743	5789	5834	5880	5925	5972	6018	6064	6110
54		6155	6202	6248	6294	6340	6385	6432	6478	6524	6569
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56		7075	7121	7166	7212	7258	7304	7350	7396	7442	7488
57		7534	7580	7626	7672	7718	7763	7809	7855	7901	7947
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68		2582	2628	2674	2720	2766	2812	2858	2904	2949	2995
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71		3958	4004	4050	4096	4142	4188	4233	4279	4325	4371
72		4417	4463	4509	4554	4600	4646	4692	4738	4784	4830
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87		1289	1335	1381	1426	1472	1518	1564	1609	1655	1701
88		1747	1793	1838	1884	1930	1976	2021	2067	2113	2159
89		2204	2250	2296	2342	2388	2433	2479	2525	2571	2616
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91		3120	3165	3211	3257	3303	3349	3394	3440	3486	3532
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97		5864	5910	5956	6002	6047	6093	6139	6184	6230	6276
98		6322	6367	6413	6459	6505	6550	6596	6642	6687	6733
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87	6827	6873	6918	6963	7008	7054	7099	7144	7190	7235	7
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62	0670	0715	0760	0805	0850	0895	0940	0985	1030	1075	
63	1120	1165	1210	1255	1300	1345	1389	1434	1479	1524	
64	1569	1614	1659	1704	1749	1794	1839	1884	1929	1974	
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66	2468	2513	2558	2603	2648	2693	2737	2782	2827	2872	
67	2917	2962	3007	3052	3097	3142	3187	3232	3277	3321	
68	3366	3411	3456	3501	3546	3591	3636	3681	3726	3771	
69	3816	3861	3905	3950	3995	4040	4085	4130	4175	4220	
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71	4714	4759	4804	4849	4893	4938	4983	5028	5073	5118	
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92	4134	4179	4224	4268	4313	4358	4403	4448	4493	4537	
93	4582	4627	4672	4717	4761	4806	4851	4896	4941	4985	
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19		6216	6261	6305	6350	6395	6439	6484	6529	6573	6618	
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21		7109	7154	7199	7243	7288	7333	7377	7422	7467	7511	
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47		8710	8754	8799	8843	8888	8932	8977	9022	9066	9111	
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51		0492	0536	0581	0625	0670	0714	0759	0803	0848	0892	
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54		1828	1872	1917	1961	2006	2050	2095	2139	2184	2228	
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62		5388	5433	5477	5521	5566	5610	5655	5699	5744	2 9
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66		7167	7212	7256	7301	7345	7390	7434	7478	7523	6 27
67		7612	7656	7701	7745	7790	7834	7879	7923	7968	7 32
68		8057	8101	8145	8190	8234	8279	8323	8368	8412	8 36
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78		2500	2545	2589	2634	2678	2722	2767	2811	2856	
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81		3833	3877	3921	3966	4010	4055	4099	4143	4188	
82		4277	4321	4365	4410	4454	4499	4543	4588	4632	
83		4721	4765	4809	4854	4898	4942	4987	5031	5076	
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88		6940	6984	7028	7073	7117	7161	7206	7250	7295	
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96		0483	0527	0571	0616	0660	0704	0749	0793	0838	
97		0931	0975	1020	1064	1108	1153	1197	1241	1286	
98		1374	1419	1463	1507	1552	1596	1640	1685	1729	
99		1818	1862	1906	1951	1995	2039	2083	2128	2172	
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07		5362	5406	5450	5495	5539	5583	5627	5672	5716	
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13		8018	8062	8107	8151	8195	8239	8284	8328	8372	
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26	3758	3812	3856	3900	3944	3989	4033	4077	4121	4165	6 26
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29	5093	5138	5182	5226	5270	5314	5358	5403	5447	5491	9 40
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37	8627	8671	8715	8759	8803	8847	8892	8936	8980	9024	
38	9068	9112	9156	9201	9245	9289	9333	9377	9421	9465	
39	9510	9554	9598	9642	9686	9730	9774	9819	9863	9907	
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42	0834	0878	0922	0966	1010	1054	1098	1142	1187	1231	
43	1275	1319	1363	1407	1451	1495	1539	1584	1628	1672	
44	1716	1760	1804	1848	1893	1937	1981	2025	2069	2113	
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46	2598	2642	2687	2731	2775	2819	2863	2907	2951	2995	
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49	3921	3965	4010	4054	4098	4142	4186	4230	4274	4318	
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53	5685	5729	5773	5817	5861	5905	5949	5993	6037	6082	
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56	7007	7051	7095	7139	7183	7227	7271	7315	7359	7404	
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59	8329	8373	8417	8461	8505	8549	8593	8637	8681	8725	
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67	1851	1895	1939	1983	2027	2071	2115	2159	2203	2247	
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84		9327	9371	9415	9459	9503	9547	9591	9635	9679	9723
9885		9767	9811	9855	9899	9942	9986	0030	0074	0118	0162
86	995	0206	0250	0294	0338	0382	0426	0470	0514	0557	0601
87		0645	0689	0733	0777	0821	0865	0909	0953	0997	1041
88		1085	1128	1172	1216	1260	1304	1348	1392	1436	1480
89		1524	1568	1612	1656	1699	1743	1787	1831	1875	1919
9890		1963	2007	2051	2095	2139	2182	2226	2270	2314	2358
91		2402	2446	2490	2534	2578	2622	2665	2709	2753	2797
92		2841	2885	2929	2973	3017	3061	3104	3148	3192	3236
93		3280	3324	3368	3412	3456	3500	3543	3587	3631	3675
94		3719	3763	3807	3851	3895	3939	3982	4026	4070	4114
9895		4158	4202	4246	4290	4334	4377	4421	4465	4509	4553
96		4597	4641	4685	4729	4772	4816	4860	4904	4948	4992
97		5036	5080	5123	5167	5211	5255	5299	5343	5387	5431
98		5474	5518	5562	5606	5650	5694	5738	5782	5825	5869
99		5913	5957	6001	6045	6089	6133	6176	6220	6264	6308
9900		6352	6396	6440	6484	6527	6571	6615	6659	6703	6747
01		6791	6834	6878	6922	6966	7010	7054	7098	7142	7185
02		7229	7273	7317	7361	7405	7449	7492	7536	7580	7624
03		7668	7712	7755	7799	7843	7887	7931	7975	8019	8062
04		8106	8150	8194	8238	8282	8326	8369	8413	8457	8501
9905		8545	8589	8632	8676	8720	8764	8808	8852	8896	8939
06		8983	9027	9071	9115	9159	9202	9246	9290	9334	9378
07		9422	9465	9509	9553	9597	9641	9685	9728	9772	9816
08	995	9860	9904	9948	9991	0035	0079	0123	0167	0211	0254
09		0298	0342	0386	0430	0474	0517	0561	0605	0649	0693
9910		0737	0780	0824	0868	0912	0956	0999	1043	1087	1131
11		1175	1219	1262	1306	1350	1394	1438	1481	1525	1569
12		1613	1657	1701	1744	1788	1832	1876	1920	1963	2007
13		2051	2095	2139	2182	2226	2270	2314	2358	2402	2445
14		2489	2533	2577	2621	2664	2708	2752	2796	2840	2883
9915		2927	2971	3015	3059	3102	3146	3190	3234	3278	3321
16		3365	3409	3453	3497	3540	3584	3628	3672	3716	3759
17		3803	3847	3891	3935	3978	4022	4065	4110	4153	4197
18		4241	4285	4329	4372	4416	4460	4504	4548	4591	4635
19		4679	4723	4766	4810	4854	4898	4942	4985	5029	5073
9920		5117	5161	5204	5248	5292	5336	5379	5423	5467	5511
21		5554	5598	5642	5686	5730	5773	5817	5861	5905	5948
22		5992	6036	6080	6124	6167	6211	6255	6299	6342	6386
23		6430	6474	6517	6561	6605	6649	6693	6736	6780	6824
24		6868	6911	6955	6999	7043	7086	7130	7174	7218	7261
9925		7305	7349	7393	7436	7480	7524	7568	7611	7655	7699
26		7743	7786	7830	7874	7918	7961	8005	8049	8093	8136
27		8180	8224	8268	8311	8355	8399	8443	8486	8530	8574
28		8618	8661	8705	8749	8793	8836	8880	8924	8968	9011
29		9055	9099	9143	9186	9230	9274	9318	9361	9405	9449
9930		9492	9536	9580	9624	9667	9711	9755	9799	9842	9886
31	997	9930	9974	0017	0061	0105	0148	0192	0236	0280	0323
32		0367	0411	0455	0498	0542	0586	0629	0673	0717	0761
33		0804	0848	0892	0936	0979	1023	1067	1110	1154	1198
34		1242	1285	1329	1373	1416	1460	1504	1548	1591	1635
9935		1679	1722	1766	1810	1854	1897	1941	1985	2028	2072
36		2116	2160	2203	2247	2291	2334	2378	2422	2465	2509
37		2553	2597	2640	2684	2728	2771	2815	2859	2903	2946
38		2990	3034	3077	3121	3165	3208	3252	3295	3340	3383
39		3427	3471	3514	3558	3602	3645	3689	3733	3776	3820
N.	0	1	2	3	4	5	6	7	8	9	

N.	0	1	2	3	4	5	6	7	8	9	diff.
9940	997 3864	3908	3951	3995	4039	4082	4126	4170	4213	4257	44 1 4 2 9 3 13 4 18 5 22 6 26 7 31 8 35 9 40
41	4301	4344	4388	4432	4475	4519	4563	4607	4650	4694	
42	4738	4781	4825	4869	4912	4956	5000	5043	5087	5131	
43	5174	5218	5262	5305	5349	5393	5436	5480	5524	5567	
44	5611	5655	5699	5742	5786	5830	5873	5917	5961	6004	
9945	6048	6092	6135	6179	6223	6266	6310	6354	6397	6441	43 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
46	6485	6528	6572	6616	6659	6703	6747	6790	6834	6878	
47	6921	6965	7009	7052	7096	7139	7183	7227	7270	7314	
48	7358	7401	7445	7489	7532	7576	7620	7663	7707	7751	
49	7794	7838	7882	7925	7969	8013	8056	8100	8144	8187	
9950	8231	8274	8318	8362	8405	8449	8493	8536	8580	8624	42 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
51	8667	8711	8755	8798	8842	8885	8929	8973	9016	9060	
52	9104	9147	9191	9235	9278	9322	9365	9409	9453	9496	
53	9540	9584	9627	9671	9715	9758	9802	9845	9889	9933	
54	9976	0020	0064	0107	0151	0195	0238	0282	0325	0369	
9955	0413	0456	0500	0544	0587	0631	0674	0718	0762	0805	41 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
56	0849	0893	0936	0980	1023	1067	1111	1154	1198	1241	
57	1285	1329	1372	1416	1460	1503	1547	1590	1634	1678	
58	1721	1765	1808	1852	1896	1939	1983	2026	2070	2114	
59	2157	2201	2245	2288	2332	2375	2419	2463	2506	2550	
9960	2593	2637	2681	2724	2768	2811	2855	2899	2942	2986	40 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
61	3029	3073	3117	3160	3204	3247	3291	3335	3378	3422	
62	3465	3509	3553	3596	3640	3683	3727	3771	3814	3858	
63	3901	3945	3988	4032	4076	4119	4163	4206	4250	4294	
64	4337	4381	4424	4468	4512	4555	4599	4642	4686	4729	
9965	4773	4817	4860	4904	4947	4991	5035	5078	5122	5165	39 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
66	5209	5252	5296	5340	5383	5427	5470	5514	5557	5601	
67	5645	5688	5732	5775	5819	5862	5906	5950	5993	6037	
68	6080	6124	6167	6211	6255	6298	6342	6385	6429	6472	
69	6516	6560	6603	6647	6690	6734	6777	6821	6864	6908	
9970	6952	6995	7039	7082	7126	7169	7213	7256	7300	7344	38 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
71	7387	7431	7474	7518	7561	7605	7648	7692	7736	7779	
72	7823	7866	7910	7953	7997	8040	8084	8128	8171	8215	
73	8258	8302	8345	8389	8432	8476	8519	8563	8607	8650	
74	8694	8737	8781	8824	8868	8911	8955	8998	9042	9086	
9975	9129	9173	9216	9260	9303	9347	9390	9434	9477	9521	37 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
76	9564	9608	9651	9695	9739	9782	9826	9869	9913	9956	
77	0000	0043	0087	0130	0174	0217	0261	0304	0348	0391	
78	0435	0479	0522	0566	0609	0653	0696	0740	0783	0827	
79	0870	0914	0957	1001	1044	1088	1131	1175	1218	1262	
9980	1305	1349	1392	1436	1479	1523	1567	1610	1654	1697	36 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
81	1741	1784	1828	1871	1915	1958	2002	2045	2089	2132	
82	2176	2219	2263	2306	2350	2393	2437	2480	2524	2567	
83	2611	2654	2698	2741	2785	2828	2872	2915	2959	3002	
84	3046	3089	3133	3176	3220	3263	3307	3350	3394	3437	
9985	3481	3524	3568	3611	3655	3698	3742	3785	3829	3872	35 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
86	3916	3959	4003	4046	4090	4133	4177	4220	4264	4307	
87	4352	4395	4439	4481	4524	4568	4611	4655	4698	4742	
88	4785	4829	4872	4916	4959	5003	5046	5090	5133	5177	
89	5220	5264	5307	5351	5394	5438	5481	5524	5568	5611	
9990	5655	5699	5742	5785	5829	5872	5916	5959	6003	6046	34 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
91	6090	6133	6177	6220	6263	6307	6350	6394	6437	6481	
92	6524	6568	6611	6655	6698	6742	6785	6828	6872	6915	
93	6959	7002	7046	7089	7133	7176	7220	7263	7307	7350	
94	7393	7437	7480	7524	7567	7611	7654	7698	7741	7785	
9995	7828	7871	7915	7958	8002	8045	8089	8132	8176	8219	33 1 4 2 9 3 13 4 17 5 22 6 26 7 30 8 34 9 39
96	8262	8305	8349	8393	8436	8480	8523	8567	8610	8654	
97	8697	8740	8784	8827	8871	8914	8958	9001	9044	9088	
98	9131	9175	9218	9262	9305	9349	9392	9435	9479	9522	
99	9566	9609	9653	9696	9739	9783	9826	9870	9913	9957	
N.	0	1	2	3	4	5	6	7	8	9	



LOGARITHMI  
FUNCTIONUM TRIGONOMETRICARUM.

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LOGARITHMS  
OF THE TRIGONOMETRIC FUNCTIONS.

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LOGARITHMES  
DES FONCTIONS TRIGONOMETRIQUES.

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LOGARITHMEN  
DER TRIGONOMETRISCHEN FUNCTIONEN.

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LOGARITMOS  
DE LAS FUNCTIONOS TRIGONOMETRICAS.

0 deg.

Log. sin.

"	0'	1'	2'	3'	4'	5'	6'	"
0		6.4637261	6.7647551	6.9408473	7.0657850	7.1626960	7.2418771	60
1	4.6855749	6.4709047	6.7683602	6.9432534	7.0675918	7.1641412	7.2430818	59
2	4.8665049	6.4779665	6.7719347	6.9456162	7.0693901	7.1655317	7.2442832	58
3	5.1625651	6.4845154	6.7754800	6.9480259	7.0711810	7.1670173	7.2454813	57
4	5.2875349	6.4917543	6.7789955	6.9503926	7.0729646	7.1684483	7.2466760	56
5	5.3845449	6.4984882	6.7824349	6.9527465	7.0747408	7.1698745	7.2478675	55
6	5.4637261	6.5051188	6.7859454	6.9550878	7.0765099	7.1712961	7.2490557	54
7	5.5305725	6.5116477	6.7893786	6.9574164	7.0782717	7.1727131	7.2502402	53
8	5.5886649	6.5180838	6.7927848	6.9597327	7.0800264	7.1741254	7.2514225	52
9	5.6398174	6.5244239	6.7951645	6.9620366	7.0817741	7.1755332	7.2525010	51
10	5.6855749	6.5306729	6.7995182	6.9643284	7.0835148	7.1769364	7.2537764	50
11	5.7259576	6.5368332	6.8028461	6.9666082	7.0852435	7.1783351	7.2549485	49
12	5.7647551	6.5429074	6.8061438	6.9688760	7.0869760	7.1797293	7.2561175	48
13	5.7935182	6.5489777	6.8094265	6.9711321	7.0886953	7.1811192	7.2572825	47
14	5.8317022	6.5548066	6.8125796	6.9733765	7.0904085	7.1825043	7.2584462	46
15	5.8616661	6.5606361	6.8159086	6.9755094	7.0921149	7.1838853	7.2596059	45
16	5.8959543	6.5663884	6.8191137	6.9776309	7.0938147	7.1852618	7.2607625	44
17	5.9300238	6.5720556	6.8222954	6.9800410	7.0955079	7.1866340	7.2619160	43
18	5.9640874	6.5776695	6.8254539	6.9822400	7.0971945	7.1880018	7.2630664	42
19	5.9983285	6.5832019	6.8285896	6.9844279	7.0988745	7.1893654	7.2642132	41
20	5.9856549	6.5885648	6.8317029	6.9865048	7.1005481	7.1907247	7.2653582	40
21	5.9779742	6.5940599	6.8347939	6.9885793	7.1022153	7.1920797	7.2664996	39
22	5.9707975	6.5993887	6.8378532	6.9906262	7.1038760	7.1934306	7.2676380	38
23	5.9637327	6.6046523	6.8409109	6.9926708	7.1055305	7.1947772	7.2687734	37
24	5.9567851	6.6098541	6.8439773	6.9947050	7.1071787	7.1961197	7.2699058	36
25	5.9535149	6.6149938	6.8469428	6.9967328	7.1088206	7.1974580	7.2710353	35
26	5.9502482	6.6200733	6.8499277	6.9987442	7.1104554	7.1987923	7.2721619	34
27	5.9469386	6.6250941	6.8528222	7.0015451	7.1120860	7.2001224	7.2732856	33
28	5.9437329	6.6300575	6.8558365	7.0036381	7.1137095	7.2014485	7.2744063	32
29	5.9407729	6.6349649	6.8587611	7.0057211	7.1153270	7.2027706	7.2755242	31
30	5.9376551	6.6398174	6.8616661	7.0077941	7.1169385	7.2040886	7.2766392	30
31	5.9346366	6.6446162	6.8645518	7.0098572	7.1185440	7.2054027	7.2777514	29
32	5.9317024	6.6493527	6.8674184	7.0119107	7.1201436	7.2067128	7.2788507	28
33	5.9288388	6.6540578	6.8702663	7.0139544	7.1217374	7.2080189	7.2799467	27
34	5.9260338	6.6587027	6.8730955	7.0159886	7.1233253	7.2093211	7.2810398	26
35	5.9232949	6.6632985	6.8759065	7.0180132	7.1249074	7.2106195	7.2821217	25
36	5.9206177	6.6678461	6.8786994	7.0200285	7.1264838	7.2119140	7.2832058	24
37	5.9179766	6.6723466	6.8814745	7.0220345	7.1280545	7.2132046	7.2842836	23
38	5.9153585	6.6768009	6.8842319	7.0240313	7.1296195	7.2144914	7.2853577	22
39	5.9127635	6.6812100	6.8869719	7.0260189	7.1311789	7.2157744	7.2864275	21
40	5.9102349	6.6855748	6.8896948	7.0279975	7.1327328	7.2170536	7.2874936	20
41	5.9077387	6.6898566	6.8924007	7.0299671	7.1342811	7.2183299	7.2885570	19
42	5.9052642	6.6941750	6.8950938	7.0319273	7.1358238	7.2196003	7.2896186	18
43	5.9028133	6.6984121	6.8977624	7.0338796	7.1373612	7.2208638	7.2906796	17
44	5.9003875	6.7026082	6.9004187	7.0358228	7.1388931	7.2221331	7.2917390	16
45	5.8979874	6.7067641	6.9030588	7.0377573	7.1404196	7.2233938	7.2927965	15
46	5.8956127	6.7108807	6.9056829	7.0396832	7.1419408	7.2246568	7.2938516	14
47	5.8932727	6.7149886	6.9082913	7.0416006	7.1434556	7.2259041	7.2949049	13
48	5.8909616	6.7189986	6.9108841	7.0435096	7.1449672	7.2271539	7.2959564	12
49	5.8886799	6.7230013	6.9134615	7.0454103	7.1464726	7.2284001	7.2970059	11
50	5.8864249	6.7269975	6.9160237	7.0473026	7.1479727	7.2296427	7.2980534	10
51	5.8841950	6.7309878	6.9185799	7.0491868	7.1494677	7.2308818	7.2990991	9
52	5.8819882	6.7349722	6.9211033	7.0510628	7.1509576	7.2321173	7.3001434	8
53	5.8798007	6.7389533	6.9236309	7.0529307	7.1524423	7.2333494	7.3011866	7
54	5.8776366	6.7429377	6.9261241	7.0547906	7.1539221	7.2345799	7.3022279	6
55	5.8754976	6.7469277	6.9286129	7.0566426	7.1553967	7.2358030	7.3032627	5
56	5.8733769	6.7509228	6.9310875	7.0584868	7.1568664	7.2370246	7.3042949	4
57	5.8712747	6.7549207	6.9335481	7.0603231	7.1583312	7.2382429	7.3053256	3
58	5.8691909	6.7589215	6.9359949	7.0621517	7.1597910	7.2394577	7.3063549	2
59	5.8671253	6.7629251	6.9384278	7.0639727	7.1612459	7.2406691	7.3073836	1
60	5.8650781	6.7669321	6.9408473	7.0657850	7.1626960	7.2418771	7.3084239	0
"	59'	58'	57'	56'	55'	54'	53'	"

Log. co-sin.

89 deg.

0 deg.

Log. tang.

"	0'	1'	2'	3'	4'	5'	6'	"
0		6.4637261	6.7647562	6.9408475	7.0657863	7.1626964	7.2418778	60
1	4.6855749	6.4709047	6.7683603	6.9425336	7.0675921	7.1641417	7.2430825	59
2	4.9866049	6.4779666	6.7719347	6.9456464	7.0693904	7.1655821	7.2442839	58
3	5.1626961	6.4845154	6.7754800	6.9480261	7.0711313	7.1670178	7.2454819	57
4	5.2876349	6.4917549	6.7789966	6.9503928	7.0729649	7.1684488	7.2466767	56
5	5.3845449	6.4984882	6.7824849	6.9527467	7.0747412	7.1698750	7.2478682	55
6	5.4637261	6.5051188	6.7859455	6.9550879	7.0765102	7.1712966	7.2490564	54
7	5.5306729	6.5116497	6.789378	6.9574166	7.0782720	7.1727136	7.2502414	53
8	5.586649	6.5180838	6.7927849	6.9597328	7.0800268	7.1741259	7.2514231	52
9	5.6398174	6.5244240	6.7961646	6.9620368	7.0817744	7.1755337	7.2526017	51
10	5.6857749	6.5306729	6.7995183	6.9643286	7.0835151	7.1769369	7.2537771	50
11	5.7269676	6.5368332	6.8028462	6.9666084	7.0852488	7.1783356	7.2549442	49
12	5.7647561	6.5429074	6.8061489	6.9688762	7.0869756	7.1797298	7.2561183	48
13	5.7995182	6.5488977	6.8094266	6.9711323	7.0886956	7.1811195	7.2572842	47
14	5.8317029	6.5548066	6.8126797	6.9733767	7.0904088	7.1825049	7.2584469	46
15	5.8616661	6.5606361	6.8159087	6.9756096	7.0921153	7.1838858	7.2596066	45
16	5.8896948	6.5663885	6.8191138	6.9778311	7.0938151	7.1852623	7.2607632	44
17	5.9160238	6.5720556	6.8222955	6.9800412	7.0955082	7.1866345	7.2619167	43
18	5.9408474	6.5776659	6.8254540	6.9822402	7.0971948	7.1880023	7.2630672	42
19	5.9643235	6.5832020	6.8285897	6.9844281	7.0988747	7.1893659	7.2642146	41
20	5.9866049	6.5886649	6.8317030	6.9866050	7.1005484	7.1907252	7.2653590	40
21	6.0077942	6.5940599	6.8347940	6.9887711	7.1022156	7.1920802	7.2665003	39
22	6.0279975	6.5993887	6.8378633	6.9909264	7.1038764	7.1934311	7.2676387	38
23	6.0473027	6.6046530	6.8409110	6.9930710	7.1055309	7.1947777	7.2687741	37
24	6.0657861	6.6098542	6.8439374	6.9952022	7.1071790	7.1961202	7.2699066	36
25	6.0835149	6.6149938	6.8469429	6.9973289	7.1088210	7.1974586	7.2710361	35
26	6.1005482	6.6200733	6.8499278	6.9994422	7.1104567	7.1987928	7.2721627	34
27	6.1169386	6.6250941	6.8528923	7.0015454	7.1120864	7.2001230	7.2732863	33
28	6.1327429	6.6300576	6.8558367	7.0036333	7.1137099	7.2014491	7.2744071	32
29	6.1477729	6.6349649	6.8587612	7.0057213	7.1153274	7.2027711	7.2755250	31
30	6.1626961	6.6398174	6.8616662	7.0077743	7.1169389	7.2040832	7.2766400	30
31	6.1769366	6.6446163	6.8645519	7.0098595	7.1185444	7.2053402	7.2777521	29
32	6.1907248	6.6493527	6.8674185	7.0119109	7.1201440	7.2066133	7.2788615	28
33	6.2040888	6.6540578	6.8702664	7.0139564	7.1217378	7.2078915	7.2799679	27
34	6.2170338	6.6587027	6.8730957	7.0159888	7.1233257	7.2093217	7.2810716	26
35	6.2296429	6.6632955	6.8759066	7.0180135	7.1249078	7.2106201	7.2821725	25
36	6.2418774	6.6678461	6.8786995	7.0200283	7.1264842	7.2119145	7.2832706	24
37	6.2537766	6.6723466	6.8814746	7.0220348	7.1280549	7.2132252	7.2843659	23
38	6.2653585	6.6768010	6.8842320	7.0240315	7.1296199	7.2144426	7.2854585	22
39	6.2766395	6.6812101	6.8869721	7.0260191	7.1311793	7.2157750	7.2865483	21
40	6.2876349	6.6855749	6.8896949	7.0279977	7.1327332	7.2170542	7.2876354	20
41	6.2983587	6.6898363	6.8924003	7.0299673	7.1342315	7.2183266	7.2887198	19
42	6.3088242	6.6941751	6.8950900	7.0319280	7.1358242	7.2196014	7.2898015	18
43	6.3190433	6.6984121	6.8977626	7.0338799	7.1373616	7.2208894	7.2908825	17
44	6.3290275	6.7026082	6.9004188	7.0358231	7.1388335	7.2221537	7.2919568	16
45	6.3387874	6.7067642	6.9030582	7.0377576	7.1404200	7.2233744	7.2930304	15
46	6.3483327	6.7108803	6.9056830	7.0396835	7.1419412	7.2246514	7.2941015	14
47	6.3576727	6.7149587	6.9082914	7.0416009	7.1434570	7.2259048	7.2951698	13
48	6.3668161	6.7189987	6.9108842	7.0435099	7.1449676	7.2271545	7.2962356	12
49	6.3757709	6.7230014	6.9134617	7.0454105	7.1464730	7.2284007	7.2972987	11
50	6.3845449	6.7269676	6.9160239	7.0473029	7.1479732	7.2296433	7.2983593	10
51	6.3931450	6.7309979	6.9185711	7.0491870	7.1494681	7.2308824	7.2994173	9
52	6.4015782	6.7349929	6.9211034	7.0510630	7.1509530	7.2321180	7.3004727	8
53	6.4098507	6.7389534	6.9236211	7.0529310	7.1524428	7.2333586	7.3015255	7
54	6.4179586	6.7424798	6.9261242	7.0547999	7.1539225	7.2345750	7.3025758	6
55	6.4259376	6.7462728	6.9286130	7.0566729	7.1553772	7.2358036	7.3036235	5
56	6.4337629	6.7500329	6.9310876	7.0584871	7.1568669	7.2370253	7.3046688	4
57	6.4414497	6.7537603	6.9335482	7.0603234	7.1583316	7.2382435	7.3057115	3
58	6.4490029	6.7574569	6.9359950	7.0621520	7.1597914	7.2394583	7.3067517	2
59	6.4564263	6.7611219	6.9384280	7.0639730	7.1612464	7.2406698	7.3077895	1
60	6.4637261	6.7647562	6.9408475	7.0657863	7.1626964	7.2418778	7.3088248	0
"	59'	58'	57'	56'	55'	54'	53'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	7'	8'	9'	10'	11'	12'	13'	"
0	7.3088239	7.3668157	7.4179681	7.4637255	7.5051181	7.5429065	7.5776684	60
1	7.3088507	7.3671195	7.4187716	7.4644487	7.5057756	7.5435092	7.5782249	59
2	7.3108870	7.3686215	7.4195737	7.4651707	7.5064321	7.5441112	7.5788266	58
3	7.3119149	7.3695216	7.4203742	7.4658916	7.5070876	7.5447123	7.5793356	57
4	7.3129404	7.3704198	7.4211733	7.4666112	7.5077422	7.5453125	7.5798899	56
5	7.3139535	7.3713162	7.4219709	7.4673236	7.5083955	7.5459120	7.5804435	55
6	7.3149842	7.3722107	7.4227670	7.4680469	7.5090483	7.5465106	7.5809964	54
7	7.3160024	7.3731034	7.4235617	7.4687623	7.5096999	7.5471084	7.5815485	53
8	7.3170183	7.3739943	7.4243549	7.4694773	7.5103506	7.5477053	7.5821000	52
9	7.3180318	7.3748832	7.4251467	7.4701915	7.5110002	7.5483015	7.5826508	51
10	7.3190430	7.3757795	7.4259370	7.4709041	7.5116489	7.5488968	7.5832009	50
11	7.3200518	7.3766739	7.4267259	7.4716164	7.5122966	7.5494913	7.5837503	49
12	7.3210583	7.3775676	7.4275134	7.4723257	7.5129434	7.5500850	7.5842990	48
13	7.3220624	7.3784614	7.4283095	7.4730347	7.5135892	7.5506779	7.5848470	47
14	7.3230643	7.3793014	7.4290841	7.4737426	7.5142340	7.5512700	7.5853943	46
15	7.3240638	7.3801736	7.4298673	7.4744493	7.5148779	7.5518613	7.5859409	45
16	7.3250610	7.3810561	7.4306491	7.4751549	7.5155208	7.5524518	7.5864864	44
17	7.3260560	7.3819308	7.4314295	7.4758594	7.5161628	7.5530414	7.5870321	43
18	7.3270487	7.3828038	7.4322085	7.4765627	7.5168038	7.5536303	7.5875767	42
19	7.3280391	7.3836750	7.4329851	7.4772649	7.5174439	7.5542184	7.5881206	41
20	7.3290272	7.3845444	7.4337624	7.4779659	7.5180830	7.5548057	7.5886638	40
21	7.3300131	7.3854122	7.4345372	7.4786658	7.5187212	7.5553921	7.5892063	39
22	7.3309968	7.3862782	7.4353106	7.4793646	7.5193585	7.5559778	7.5897481	38
23	7.3319783	7.3871424	7.4360827	7.4800623	7.5199948	7.5565627	7.5902893	37
24	7.3329575	7.3880056	7.4368534	7.4807588	7.5206302	7.5571469	7.5908298	36
25	7.3339345	7.3888668	7.4376228	7.4814542	7.5212545	7.5577302	7.5913666	35
26	7.3349094	7.3897249	7.4383908	7.4821485	7.5218782	7.5583127	7.5919088	34
27	7.3358821	7.3905824	7.4391674	7.4828417	7.5225008	7.5588945	7.5924473	33
28	7.3368525	7.3914381	7.4399427	7.4835338	7.5231625	7.5594755	7.5929851	32
29	7.3378209	7.3922922	7.4406866	7.4842243	7.5237733	7.5600557	7.5935223	31
30	7.3387870	7.3931446	7.4414492	7.4849147	7.5244231	7.5606352	7.5940588	30
31	7.3397511	7.3939953	7.4422104	7.4856035	7.5250521	7.5612138	7.5945946	29
32	7.3407130	7.3948444	7.4429703	7.4862913	7.5256801	7.5617917	7.5951293	28
33	7.3416727	7.3956918	7.4437289	7.4869779	7.5263073	7.5623689	7.5956643	27
34	7.3426304	7.3965375	7.4444852	7.4876634	7.5269335	7.5629452	7.5961981	26
35	7.3435853	7.3973816	7.4452421	7.4883479	7.5275588	7.5635208	7.5967313	25
36	7.3445394	7.3982241	7.4459968	7.4890313	7.5281833	7.5640957	7.5972639	24
37	7.3454907	7.3990630	7.4467501	7.4897136	7.5288068	7.5646698	7.5977963	23
38	7.3464400	7.3999042	7.4475021	7.4903949	7.5294295	7.5652431	7.5983270	22
39	7.3473872	7.4007418	7.4482529	7.4910750	7.5300512	7.5658157	7.5988576	21
40	7.3483323	7.4015778	7.4490023	7.4917541	7.5306721	7.5663875	7.5993876	20
41	7.3492754	7.4024121	7.4497504	7.4924322	7.5312920	7.5669585	7.5999169	19
42	7.3502155	7.4032449	7.4504973	7.4931092	7.5319111	7.5675289	7.6004455	18
43	7.3511535	7.4040761	7.4512428	7.4937851	7.5325294	7.5680984	7.6009737	17
44	7.3520895	7.4049057	7.4519871	7.4944600	7.5331467	7.5686672	7.6015009	16
45	7.3530275	7.4057337	7.4527302	7.4951339	7.5337631	7.5692353	7.6020277	15
46	7.3539604	7.4065601	7.4534719	7.4958067	7.5343787	7.5698026	7.6025538	14
47	7.3548914	7.4073850	7.4542124	7.4964784	7.5349934	7.5703672	7.6030792	13
48	7.3558203	7.4082083	7.4549516	7.4971492	7.5356073	7.5709351	7.6036032	12
49	7.3567473	7.4090301	7.4556896	7.4978188	7.5362202	7.5715002	7.6041282	11
50	7.3576723	7.4098503	7.4564263	7.4984875	7.5368324	7.5720646	7.6046518	10
51	7.3585954	7.4106683	7.4571618	7.4991551	7.5374436	7.5726282	7.6051747	9
52	7.3595165	7.4114860	7.4578936	7.4998217	7.5380540	7.5731912	7.6056970	8
53	7.3604356	7.4123016	7.4586290	7.5004873	7.5386635	7.5737533	7.6062187	7
54	7.3613528	7.4131166	7.4593607	7.5011519	7.5392722	7.5743148	7.6067397	6
55	7.3622681	7.4139322	7.4600912	7.5018154	7.5398800	7.5748735	7.6072602	5
56	7.3631814	7.4147392	7.4608203	7.5024780	7.5404870	7.5754355	7.6077800	4
57	7.3640929	7.4155487	7.4615486	7.5031395	7.5410931	7.5759949	7.6082991	3
58	7.3650024	7.4163567	7.4622754	7.5038000	7.5416784	7.5765554	7.6088177	2
59	7.3659100	7.4171631	7.4630011	7.5044595	7.5422329	7.5771113	7.6093356	1
60	7.3668157	7.4179681	7.4637255	7.5051181	7.5428065	7.5776684	7.6098530	0
"	52'	51'	50'	49'	48'	47'	46'	"

Log. co-sin.

89 deg.



0 deg.

Tang.

"	7'	8'	9'	10'	11'	12'	13'	"
0	7.3088248	7.3658169	7.4179696	7.4637273	7.5051203	7.5429091	7.5776715	60
1	7.3098576	7.3677207	7.4187731	7.4644506	7.5057778	7.5435119	7.5782280	59
2	7.3108879	7.3686227	7.4195752	7.4651726	7.5064343	7.5441138	7.5787837	58
3	7.3119158	7.3695228	7.4203757	7.4658934	7.5070899	7.5447149	7.5793387	57
4	7.3129413	7.3704210	7.4211748	7.4666130	7.5077444	7.5453152	7.5798930	56
5	7.3139644	7.3713174	7.4219724	7.4673315	7.5083980	7.5459147	7.5804466	55
6	7.3149851	7.3722119	7.4227685	7.4680487	7.5090506	7.5465133	7.5809995	54
7	7.3160034	7.3731046	7.4235632	7.4687648	7.5097022	7.5471111	7.5815517	53
8	7.3170193	7.3739955	7.4243564	7.4694797	7.5103528	7.5477080	7.5821032	52
9	7.3180328	7.3748845	7.4251482	7.4701934	7.5110025	7.5483042	7.5826540	51
10	7.3190440	7.3757718	7.4259386	7.4709060	7.5116512	7.5488995	7.5832041	50
11	7.3200528	7.3766575	7.4267275	7.4716173	7.5122939	7.5494941	7.5837535	49
12	7.3210592	7.3775408	7.4275150	7.4723276	7.5129457	7.5500978	7.5843022	48
13	7.3220634	7.3784226	7.4283010	7.4730366	7.5135915	7.5506907	7.5848502	47
14	7.3230652	7.3793026	7.4290857	7.4737445	7.5142363	7.5512728	7.5853975	46
15	7.3240648	7.3801809	7.4298699	7.4744513	7.5148802	7.5518640	7.5859441	45
16	7.3250622	7.3810574	7.4306505	7.4751569	7.5155231	7.5524545	7.5864901	44
17	7.3260570	7.3819321	7.4314311	7.4758613	7.5161651	7.5530442	7.5870353	43
18	7.3270496	7.3828051	7.4322101	7.4765646	7.5168061	7.5536331	7.5875799	42
19	7.3280400	7.3836763	7.4329877	7.4772668	7.5174462	7.5542212	7.5881238	41
20	7.3290282	7.3845457	7.4337640	7.4779679	7.5180854	7.5548084	7.5886670	40
21	7.3300141	7.3854134	7.4345388	7.4786678	7.5187236	7.5553940	7.5892036	39
22	7.3309978	7.3862794	7.4353123	7.4793666	7.5193608	7.5559806	7.5897514	38
23	7.3319793	7.3871437	7.4360843	7.4800642	7.5199972	7.5565656	7.5902926	37
24	7.3329585	7.3880063	7.4368551	7.4807608	7.5206326	7.5571497	7.5908331	36
25	7.3339356	7.3888671	7.4376244	7.4814552	7.5212670	7.5577330	7.5913730	35
26	7.3349104	7.3897253	7.4383924	7.4821505	7.5219006	7.5583156	7.5919121	34
27	7.3358831	7.3905837	7.4391590	7.4828437	7.5225332	7.5588974	7.5924506	33
28	7.3368536	7.3914395	7.4399243	7.4835355	7.5231649	7.5594784	7.5929834	32
29	7.3378219	7.3922936	7.4406882	7.4842269	7.5237957	7.5600586	7.5935256	31
30	7.3387881	7.3931459	7.4414508	7.4849168	7.5244256	7.5606380	7.5940621	30
31	7.3397521	7.3939967	7.4422121	7.4856056	7.5250545	7.5612167	7.5945980	29
32	7.3407140	7.3948457	7.4429720	7.4862933	7.5256826	7.5617946	7.5951331	28
33	7.3416738	7.3956931	7.4437306	7.4869799	7.5263097	7.5623718	7.5956677	27
34	7.3426314	7.3965389	7.4444879	7.4876655	7.5269360	7.5629481	7.5962015	26
35	7.3435870	7.3973830	7.4452438	7.4883500	7.5275613	7.5635233	7.5967347	25
36	7.3445404	7.3982255	7.4459985	7.4890334	7.5281858	7.5640986	7.5972673	24
37	7.3454918	7.3990663	7.4467518	7.4897157	7.5288093	7.5646727	7.5977992	23
38	7.3464411	7.3999055	7.4475038	7.4903969	7.5294319	7.5652460	7.5983304	22
39	7.3473883	7.4007431	7.4482546	7.4910771	7.5300537	7.5658186	7.5988611	21
40	7.3483334	7.4015771	7.4490040	7.4917562	7.5306746	7.5663904	7.5993910	20
41	7.3492765	7.4024135	7.4497521	7.4924343	7.5312945	7.5669615	7.5999203	19
42	7.3502176	7.4032463	7.4504990	7.4931113	7.5319137	7.5675318	7.6004490	18
43	7.3511566	7.4040775	7.4512446	7.4937872	7.5325319	7.5681014	7.6009770	17
44	7.3520936	7.4049071	7.4519889	7.4944621	7.5331492	7.5686702	7.6015044	16
45	7.3530286	7.4057351	7.4527319	7.4951360	7.5337657	7.5692383	7.6020311	15
46	7.3539615	7.4065616	7.4534737	7.4958058	7.5343813	7.5698056	7.6025572	14
47	7.3548925	7.4073864	7.4542141	7.4964806	7.5349960	7.5703722	7.6030827	13
48	7.3558215	7.4082097	7.4549534	7.4971513	7.5356098	7.5709381	7.6036085	12
49	7.3567485	7.4090315	7.4556913	7.4978210	7.5362228	7.5715032	7.6041317	11
50	7.3576735	7.4098517	7.4564281	7.4984897	7.5368349	7.5720676	7.6046553	10
51	7.3585965	7.4106703	7.4571635	7.4991573	7.5374462	7.5726313	7.6051782	9
52	7.3595176	7.4114875	7.4578978	7.4998239	7.5380566	7.5731942	7.6057005	8
53	7.3604368	7.4123039	7.4586308	7.5004895	7.5386651	7.5737564	7.6062222	7
54	7.3613540	7.4131171	7.4593625	7.5011541	7.5392748	7.5743179	7.6067433	6
55	7.3622692	7.4139266	7.4600930	7.5018176	7.5398826	7.5748785	7.6072637	5
56	7.3631826	7.4147406	7.4608223	7.5024802	7.5404896	7.5754386	7.6077835	4
57	7.3640940	7.4155501	7.4615504	7.5031417	7.5410938	7.5759979	7.6083027	3
58	7.3650035	7.4163581	7.4622773	7.5038022	7.5417011	7.5765565	7.6088213	2
59	7.3659112	7.4171646	7.4630029	7.5044618	7.5423055	7.5771144	7.6093392	1
60	7.3668169	7.4179696	7.4637273	7.5051203	7.5429091	7.5776715	7.6098556	0
"	52'	51'	50'	49'	48'	47'	46'	"

co-Tang.

89 deg.

0 deg.

Log. sin.

"	14'	15'	16'	17'	18'	19'	20'	"
0	7.6098530	7.6398160	7.6698345	7.6941733	7.7189966	7.7424775	7.7547637	60
1	7.6103677	7.6402803	7.6682676	7.6945988	7.7193986	7.7428583	7.7551154	59
2	7.6108858	7.6407800	7.6687484	7.6950240	7.7198001	7.7432388	7.7554763	58
3	7.6114012	7.6412612	7.6691996	7.6954487	7.7202013	7.7436189	7.7558380	57
4	7.6119161	7.6417419	7.6696503	7.6958730	7.7206021	7.7439987	7.7561989	56
5	7.6124304	7.6422221	7.6701006	7.6962969	7.7210036	7.7443781	7.7565594	55
6	7.6129440	7.6427017	7.6705504	7.6967204	7.7214027	7.7447573	7.7569197	54
7	7.6134571	7.6431808	7.6709993	7.6971435	7.7218024	7.7451360	7.7572797	53
8	7.6139695	7.6436593	7.6714485	7.6975662	7.7222017	7.7455145	7.7576393	52
9	7.6144813	7.6441373	7.6718970	7.6979884	7.7226007	7.7458926	7.7579987	51
10	7.6149926	7.6446149	7.6723450	7.6984103	7.7229993	7.7462705	7.7583577	50
11	7.6155032	7.6450918	7.6727925	7.6988317	7.7233976	7.7466479	7.7587165	49
12	7.6160132	7.6455683	7.6732395	7.6992528	7.7237955	7.7470251	7.7590750	48
13	7.6165227	7.6460448	7.6736861	7.6996734	7.7241930	7.7474019	7.7594332	47
14	7.6170315	7.6465196	7.6741322	7.7000936	7.7245902	7.7477784	7.7597910	46
15	7.6175397	7.6469945	7.6745779	7.7005134	7.7249869	7.7481546	7.7601486	45
16	7.6180474	7.6474639	7.6750231	7.7009323	7.7253834	7.7485324	7.7605069	44
17	7.6185544	7.6479428	7.6754678	7.7013518	7.7257794	7.7489059	7.7608623	43
18	7.6190609	7.6484161	7.6759121	7.7017704	7.7261752	7.7492811	7.7612196	42
19	7.6195668	7.6488839	7.6763559	7.7021886	7.7265705	7.7496560	7.7615760	41
20	7.6200721	7.6493613	7.6767993	7.7026064	7.7269655	7.7500306	7.7619322	40
21	7.6205763	7.6498331	7.6772422	7.7030238	7.7273601	7.7504048	7.7622880	39
22	7.6210809	7.6503045	7.6776847	7.7034407	7.7277544	7.7507787	7.7626435	38
23	7.6215844	7.6507751	7.6781267	7.7038573	7.7281483	7.7511523	7.7629988	37
24	7.6220873	7.6512454	7.6785683	7.7042735	7.7285419	7.7515255	7.7633537	36
25	7.6225897	7.6517151	7.6790094	7.7046893	7.7289351	7.7518985	7.7637084	35
26	7.6230915	7.6521844	7.6794501	7.7051047	7.7293279	7.7522711	7.7640628	34
27	7.6235927	7.6526531	7.6798904	7.7055197	7.7297204	7.7526434	7.7644169	33
28	7.6240933	7.6531214	7.6803302	7.7059345	7.7301125	7.7530154	7.7647707	32
29	7.6245934	7.6535891	7.6807695	7.7063485	7.7305057	7.7533871	7.7651242	31
30	7.6250928	7.6540563	7.6812084	7.7067623	7.7308963	7.7537584	7.7654774	30
31	7.6255917	7.6545231	7.6816469	7.7071757	7.7312863	7.7541294	7.7658303	29
32	7.6260901	7.6549893	7.6820849	7.7075887	7.7316770	7.7545001	7.7661830	28
33	7.6265878	7.6554550	7.6825224	7.7080014	7.7320679	7.7548705	7.7665354	27
34	7.6270850	7.6559203	7.6829593	7.7084136	7.7324579	7.7552406	7.7668874	26
35	7.6275815	7.6563850	7.6833963	7.7088254	7.7328476	7.7556104	7.7672392	25
36	7.6280777	7.6568492	7.6838325	7.7092369	7.7332369	7.7559798	7.7675907	24
37	7.6285732	7.6573130	7.6842683	7.7096430	7.7336253	7.7563490	7.7679420	23
38	7.6290681	7.6577762	7.6847037	7.7100586	7.7340143	7.7567173	7.7682932	22
39	7.6295624	7.6582390	7.6851387	7.7104683	7.7344028	7.7570863	7.7686436	21
40	7.6300552	7.6587012	7.6855732	7.7108783	7.7347908	7.7574545	7.7690039	20
41	7.6305495	7.6591630	7.6860072	7.7112833	7.7351783	7.7578224	7.7693640	19
42	7.6310421	7.6596253	7.6864409	7.7116975	7.7355656	7.7581900	7.7697238	18
43	7.6315342	7.6600880	7.6868741	7.7121062	7.7359525	7.7585572	7.7690843	17
44	7.6320258	7.6605453	7.6873069	7.7125146	7.7363390	7.7589242	7.7694426	16
45	7.6325163	7.6610052	7.6877392	7.7129225	7.7367252	7.7592908	7.7698046	15
46	7.6330073	7.6614645	7.6881711	7.7133301	7.7371111	7.7596572	7.7701603	14
47	7.6334971	7.6619233	7.6886026	7.7137373	7.7374966	7.7600232	7.7705187	13
48	7.6339865	7.6623817	7.6890337	7.7141442	7.7378818	7.7603889	7.7708781	12
49	7.6344753	7.6628395	7.6894643	7.7145506	7.7382666	7.7607543	7.7712347	11
50	7.6349635	7.6632969	7.6898945	7.7149567	7.7386511	7.7611194	7.7715882	10
51	7.6354512	7.6637538	7.6903243	7.7153624	7.7390353	7.7614842	7.7719425	9
52	7.6359384	7.6642103	7.6907536	7.7157677	7.7394191	7.7618487	7.7722973	8
53	7.6364250	7.6646662	7.6911826	7.7161725	7.7398026	7.7622129	7.7726523	7
54	7.6369110	7.6651217	7.6916111	7.7165772	7.7401857	7.7625768	7.7730067	6
55	7.6373965	7.6655767	7.6920392	7.7169814	7.7405685	7.7629403	7.7733615	5
56	7.6378815	7.6660314	7.6924663	7.7173852	7.7409510	7.7633030	7.7737163	4
57	7.6383659	7.6664852	7.6928941	7.7177885	7.7413331	7.7636666	7.7740705	3
58	7.6388493	7.6669388	7.6933202	7.7181917	7.7417149	7.7640292	7.7744258	2
59	7.6393322	7.6673919	7.6937473	7.7185943	7.7420964	7.7643916	7.7747809	1
60	7.6398150	7.6678445	7.6941733	7.7189966	7.7424775	7.7647537	7.7751427	0
"	45'	44'	43'	42'	41'	40'	39'	"

Log. cosin.

89 deg.

0 deg.

Log. tang.

"	14'	15'	16'	17'	18'	19'	20'	"
0	7.5098566	7.6398201	7.6678492	7.6941786	7.7190026	7.7424841	7.7647610	60
1	7.6103733	7.6403024	7.6683014	7.6946042	7.7194045	7.7428649	7.7651228	59
2	7.6108834	7.6407842	7.6687531	7.6950293	7.7198061	7.7432454	7.7654843	58
3	7.6114049	7.6412654	7.6692043	7.6954541	7.7202073	7.7436255	7.7658454	57
4	7.6119197	7.6417461	7.6696551	7.6958754	7.7206031	7.7440033	7.7662063	56
5	7.6124340	7.6422252	7.6701053	7.6963023	7.7210036	7.7443848	7.7665669	55
6	7.6129477	7.6427059	7.6705552	7.6967258	7.7214087	7.7447640	7.7669271	54
7	7.6134607	7.6431850	7.6710045	7.6971489	7.7218084	7.7451428	7.7672871	53
8	7.6139732	7.6436635	7.6714534	7.6975716	7.7222078	7.7455212	7.7676468	52
9	7.6144830	7.6441416	7.6719018	7.6979938	7.7226068	7.7458994	7.7680061	51
10	7.6149963	7.6446191	7.6723498	7.6984157	7.7230054	7.7462772	7.7683652	50
11	7.6155069	7.6450961	7.6727973	7.6988371	7.7234037	7.7466547	7.7687240	49
12	7.6160169	7.6455725	7.6732443	7.6992582	7.7238016	7.7470312	7.7690825	48
13	7.6165264	7.6460485	7.6736909	7.6996788	7.7241991	7.7474087	7.7694407	47
14	7.6170352	7.6465239	7.6741371	7.7000990	7.7245963	7.7477852	7.7697986	46
15	7.6175435	7.6469988	7.6745827	7.7005189	7.7249931	7.7481614	7.7701562	45
16	7.6180511	7.6474732	7.6750279	7.7009383	7.7253895	7.7485372	7.7705135	44
17	7.6185582	7.6479471	7.6754727	7.7013573	7.7257856	7.7489128	7.7708705	43
18	7.6190647	7.6484204	7.6759170	7.7017759	7.7261813	7.7492880	7.7712272	42
19	7.6195705	7.6488933	7.6763608	7.7021941	7.7265767	7.7496629	7.7715836	41
20	7.6200758	7.6493656	7.6768042	7.7026119	7.7269717	7.7500374	7.7719398	40
21	7.6205805	7.6498374	7.6772471	7.7030293	7.7273666	7.7504117	7.7722956	39
22	7.6210847	7.6503087	7.6776906	7.7034463	7.7277606	7.7507857	7.7726512	38
23	7.6215882	7.6507795	7.6781317	7.7038629	7.7281545	7.7511592	7.7730064	37
24	7.6220911	7.6512497	7.6785733	7.7042791	7.7285481	7.7515325	7.7733614	36
25	7.6225935	7.6517195	7.6790144	7.7046949	7.7289413	7.7519054	7.7737161	35
26	7.6230953	7.6521888	7.6794451	7.7051103	7.7293343	7.7522780	7.7740705	34
27	7.6235965	7.6526575	7.6798753	7.7055253	7.7297267	7.7526504	7.7744246	33
28	7.6240972	7.6531258	7.6803051	7.7059392	7.7301183	7.7530224	7.7747784	32
29	7.6245976	7.6535935	7.6807745	7.7063541	7.7305106	7.7533949	7.7751319	31
30	7.6250977	7.6540608	7.6812134	7.7067679	7.7309020	7.7537654	7.7754851	30
31	7.6255966	7.6545275	7.6816519	7.7071813	7.7312931	7.7541364	7.7758381	29
32	7.6260939	7.6549937	7.6820892	7.7075944	7.7316839	7.7545072	7.7761907	28
33	7.6265917	7.6554595	7.6825275	7.7080070	7.7320742	7.7548776	7.7765431	27
34	7.6270889	7.6559247	7.6829646	7.7084193	7.7324643	7.7552477	7.7768952	26
35	7.6275855	7.6563895	7.6834013	7.7088311	7.7328540	7.7556174	7.7772470	25
36	7.6280816	7.6568537	7.6838376	7.7092426	7.7332433	7.7559869	7.7775985	24
37	7.6285771	7.6573174	7.6842734	7.7096537	7.7336323	7.7563560	7.7779498	23
38	7.6290720	7.6577807	7.6847088	7.7100643	7.7340202	7.7567249	7.7783007	22
39	7.6295664	7.6582435	7.6851438	7.7104746	7.7344092	7.7570934	7.7786514	21
40	7.6300602	7.6587057	7.6855783	7.7108846	7.7347972	7.7574616	7.7790018	20
41	7.6305534	7.6591675	7.6860124	7.7112941	7.7351848	7.7578295	7.7793519	19
42	7.6310461	7.6596288	7.6864460	7.7117032	7.7355720	7.7581971	7.7797017	18
43	7.6315382	7.6600906	7.6868792	7.7121120	7.7359589	7.7585644	7.7800513	17
44	7.6320298	7.6605519	7.6873120	7.7125203	7.7363455	7.7589313	7.7804005	16
45	7.6325208	7.6610137	7.6877444	7.7129283	7.7367317	7.7592980	7.7807495	15
46	7.6330113	7.6614750	7.6881763	7.7133359	7.7371176	7.7596643	7.7810988	14
47	7.6335012	7.6619359	7.6886073	7.7137432	7.7375031	7.7600304	7.7814466	13
48	7.6339905	7.6623963	7.6890382	7.7141500	7.7378883	7.7603961	7.7817948	12
49	7.6344793	7.6628561	7.6894695	7.7145565	7.7382731	7.7607615	7.7821426	11
50	7.6349676	7.6633155	7.6898997	7.7149625	7.7386577	7.7611266	7.7824902	10
51	7.6354553	7.6637753	7.6903295	7.7153682	7.7390413	7.7614915	7.7828375	9
52	7.6359424	7.6642349	7.6907583	7.7157736	7.7394257	7.7618560	7.7831845	8
53	7.6364290	7.6646940	7.6911873	7.7161785	7.7398091	7.7622202	7.7835313	7
54	7.6369151	7.6651523	7.6916163	7.7165831	7.7401923	7.7625840	7.7838778	6
55	7.6374005	7.6656113	7.6920444	7.7169873	7.7405751	7.7629476	7.7842240	5
56	7.6378855	7.6660705	7.6924721	7.7173911	7.7409577	7.7633103	7.7845699	4
57	7.6383700	7.6665299	7.6928993	7.7177945	7.7413307	7.7636733	7.7849155	3
58	7.6388539	7.6669895	7.6933262	7.7181976	7.7417215	7.7640366	7.7852609	2
59	7.6393373	7.6674496	7.6937526	7.7186003	7.7421038	7.7643989	7.7856060	1
60	7.6398201	7.6678492	7.6941785	7.7190026	7.7424841	7.7647610	7.7859508	0
"	45'	44'	43'	42'	41'	40'	39'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	21'	22'	23'	24'	25'	26'	27'	"
0	7.7859427	7.8061458	7.8254507	7.8439338	7.8616623	7.8786953	7.8950854	60
1	7.7862872	7.8064747	7.8257653	7.8442353	7.8619517	7.8789736	7.8953534	59
2	7.7866315	7.8068033	7.8260797	7.8445366	7.8622410	7.8792517	7.8956212	58
3	7.7869755	7.8071317	7.8263938	7.8448377	7.8625300	7.8795277	7.8958895	57
4	7.7873192	7.8074599	7.8267077	7.8451385	7.8628189	7.8798075	7.8961564	56
5	7.7876627	7.8077878	7.8270214	7.8454392	7.8631075	7.8800850	7.8964237	55
6	7.7880058	7.8081154	7.8273348	7.8457396	7.8633960	7.8803625	7.8966909	54
7	7.7883488	7.8084428	7.8276481	7.8460398	7.8636843	7.8806397	7.8969579	53
8	7.7886914	7.8087699	7.8279611	7.8463399	7.8639723	7.8809167	7.8972243	52
9	7.7890337	7.8090968	7.8282738	7.8466397	7.8642602	7.8811936	7.8974914	51
10	7.7893758	7.8094235	7.8285864	7.8469393	7.8645479	7.8814703	7.8977580	50
11	7.7897172	7.8097499	7.8288987	7.8472387	7.8648354	7.8817465	7.8980243	49
12	7.7900585	7.8100761	7.8292108	7.8475379	7.8651228	7.8820232	7.8982905	48
13	7.7904005	7.8104020	7.8295227	7.8478369	7.8654099	7.8822994	7.8985565	47
14	7.7907415	7.8107277	7.8298343	7.8481357	7.8656968	7.8825754	7.8988224	46
15	7.7910823	7.8110531	7.8301458	7.8484343	7.8659836	7.8828512	7.8990881	45
16	7.7914228	7.8113783	7.8304570	7.8487326	7.8662702	7.8831269	7.8993536	44
17	7.7917630	7.8117032	7.8307680	7.8490308	7.8665565	7.8834023	7.8996190	43
18	7.7921029	7.8120279	7.8310787	7.8493288	7.8668427	7.8836776	7.8998842	42
19	7.7924426	7.8123524	7.8313893	7.8496265	7.8571287	7.8839528	7.9001493	41
20	7.7927822	7.8126766	7.8316996	7.8499241	7.8574145	7.8842277	7.9004141	40
21	7.7931210	7.8130006	7.8320097	7.8502215	7.8577001	7.8845025	7.9006789	39
22	7.7934601	7.8133243	7.8323195	7.8505185	7.8579856	7.8847771	7.9009434	38
23	7.7937977	7.8136478	7.8326292	7.8508155	7.8582708	7.8850515	7.9012078	37
24	7.7941351	7.8139711	7.8329386	7.8511123	7.8585553	7.8853258	7.9014721	36
25	7.7944752	7.8142941	7.8332478	7.8514088	7.8588408	7.8855999	7.9017362	35
26	7.7948130	7.8146168	7.8335568	7.8517052	7.8591254	7.8858735	7.9020003	34
27	7.7951506	7.8149394	7.8338656	7.8520013	7.8594099	7.8861475	7.9022653	33
28	7.7954879	7.8152617	7.8341781	7.8522973	7.8596942	7.8864211	7.9025295	32
29	7.7958250	7.8155837	7.8344825	7.8525930	7.8599784	7.8866945	7.9027939	31
30	7.7961617	7.8159055	7.8347906	7.8528885	7.8602623	7.8869677	7.9030582	30
31	7.7964983	7.8162271	7.8350955	7.8531839	7.8605461	7.8872407	7.9033233	29
32	7.7968345	7.8165484	7.8353962	7.8534790	7.8608295	7.8875136	7.9035883	28
33	7.7971705	7.8168695	7.8356935	7.8537739	7.8611130	7.8877863	7.9038531	27
34	7.7975063	7.8171904	7.8359909	7.8540687	7.8613962	7.8880589	7.9041179	26
35	7.7978418	7.8175110	7.8362879	7.8543632	7.8616792	7.8883312	7.9043822	25
36	7.7981770	7.8178314	7.8365847	7.8546575	7.8619621	7.8886034	7.9046465	24
37	7.7985120	7.8181516	7.8368813	7.8549517	7.8622447	7.8888754	7.9049107	23
38	7.7988467	7.8184715	7.8371777	7.8552456	7.8625272	7.8891473	7.9051747	22
39	7.7991811	7.8187912	7.8374738	7.8555393	7.8628095	7.8894190	7.9054386	21
40	7.7995153	7.8191105	7.8377688	7.8558329	7.8630916	7.8896905	7.9056983	20
41	7.7998493	7.8194298	7.8380635	7.8561262	7.8633735	7.8899618	7.9059578	19
42	7.8001830	7.8197488	7.8383571	7.8564193	7.8636552	7.8902330	7.9062172	18
43	7.8005164	7.8200676	7.8386507	7.8567123	7.8639367	7.8905040	7.9064764	17
44	7.8008496	7.8203861	7.8389434	7.8570050	7.8642181	7.8907749	7.9067356	16
45	7.8011825	7.8207043	7.8392363	7.8572976	7.8644993	7.8910455	7.9069944	15
46	7.8015151	7.8210224	7.8395290	7.8575909	7.8647803	7.8913160	7.9072531	14
47	7.8018475	7.8213402	7.8398214	7.8578821	7.8650611	7.8915864	7.9075117	13
48	7.8021797	7.8216578	7.8401136	7.8581740	7.8653417	7.8918565	7.9077702	12
49	7.8025116	7.8219751	7.8404053	7.8584658	7.8656222	7.8921265	7.9080285	11
50	7.8028432	7.8222922	7.8406974	7.8587574	7.8659025	7.8923963	7.9082866	10
51	7.8031746	7.8226091	7.8411110	7.8590487	7.8661826	7.8926660	7.9085446	9
52	7.8035058	7.8229258	7.8415144	7.8593399	7.8664625	7.8929355	7.9088024	8
53	7.8038367	7.8232422	7.8419176	7.8596309	7.8667422	7.8932048	7.9090599	7
54	7.8041673	7.8235584	7.8423205	7.8599211	7.8670218	7.8934740	7.9093176	6
55	7.8044977	7.8238743	7.8427233	7.8602123	7.8673011	7.8937430	7.9095749	5
56	7.8048278	7.8241921	7.8431258	7.8605027	7.8675803	7.8940118	7.9098314	4
57	7.8051577	7.8245056	7.8435281	7.8607929	7.8678594	7.8942804	7.9100881	3
58	7.8054873	7.8248209	7.8439302	7.8610829	7.8681382	7.8945489	7.9103440	2
59	7.8058167	7.8251359	7.8443321	7.8613727	7.8684168	7.8948173	7.9106008	1
60	7.8061458	7.8254507	7.8447338	7.8616623	7.8686953	7.8950854	7.9108573	0
"	38'	37'	36'	35'	34'	33'	32'	"

Log. co-sin.

89 deg.



0 deg.

Log. tang.

"	21'	22'	23'	24'	25'	26'	27'	"
0	7.7859508	7.8061547	7.8254604	7.8439444	7.8616738	7.8787077	7.8950988	60
1	7.7862354	7.8064836	7.8257750	7.8442459	7.8619632	7.8789861	7.8953668	59
2	7.7865396	7.8068123	7.8260894	7.8445472	7.8622525	7.8792642	7.8956347	58
3	7.7868336	7.8071407	7.8264036	7.8448483	7.8625415	7.8795422	7.8959023	57
4	7.7871274	7.8074683	7.8267175	7.8451492	7.8628304	7.8798199	7.8961699	56
5	7.7876708	7.8077967	7.8270312	7.8454498	7.8631191	7.8800975	7.8964372	55
6	7.7880140	7.8081244	7.8273446	7.8457503	7.8634076	7.8803750	7.8967044	54
7	7.7883569	7.8084518	7.8276579	7.8460505	7.8636958	7.8806522	7.8969714	53
8	7.7886996	7.8087789	7.8279709	7.8463506	7.8639839	7.8809293	7.8972383	52
9	7.7890420	7.8091059	7.8282837	7.8466504	7.8642719	7.8812062	7.8975050	51
10	7.7893841	7.8094325	7.8285962	7.8469500	7.8645596	7.8814829	7.8977715	50
11	7.7897259	7.8097590	7.8289086	7.8472494	7.8648471	7.8817594	7.8980379	49
12	7.7900675	7.8100855	7.8292207	7.8475487	7.8651344	7.8820358	7.8983041	48
13	7.7904083	7.8104111	7.8295326	7.8478477	7.8654216	7.8823120	7.8985701	47
14	7.7907498	7.8107368	7.8298443	7.8481465	7.8657085	7.8825880	7.8988360	46
15	7.7910906	7.8110522	7.8301557	7.8484451	7.8659953	7.8828639	7.8991017	45
16	7.7914311	7.8113374	7.8304669	7.8487435	7.8662819	7.8831395	7.8993673	44
17	7.7917713	7.8116124	7.8307779	7.8490416	7.8665683	7.8834150	7.8996327	43
18	7.7921113	7.8118871	7.8310837	7.8493396	7.8668545	7.8836903	7.8998979	42
19	7.7924510	7.8122615	7.8313992	7.8496374	7.8671405	7.8839655	7.9001630	41
20	7.7927904	7.8126858	7.8317096	7.8499350	7.8674263	7.8842404	7.9004279	40
21	7.7931296	7.8130098	7.8320197	7.8502323	7.8677120	7.8845152	7.9006926	39
22	7.7934685	7.8133335	7.8323296	7.8505295	7.8679974	7.8847909	7.9009572	38
23	7.7938071	7.8136570	7.8326392	7.8508265	7.8682827	7.8850654	7.9012216	37
24	7.7941455	7.8139803	7.8329487	7.8511232	7.8685677	7.8853386	7.9014859	36
25	7.7944836	7.8143033	7.8332579	7.8514198	7.8688526	7.8856127	7.9017500	35
26	7.7948215	7.8146261	7.8335669	7.8517161	7.8691379	7.8858866	7.9020139	34
27	7.7951590	7.8149486	7.8338767	7.8520123	7.8694218	7.8861604	7.9022777	33
28	7.7954964	7.8152709	7.8341843	7.8523083	7.8697052	7.8864339	7.9025413	32
29	7.7958334	7.8155930	7.8344926	7.8526040	7.8699903	7.8867074	7.9028048	31
30	7.7961702	7.8159148	7.8348007	7.8528996	7.8702743	7.8869806	7.9030681	30
31	7.7965068	7.8162364	7.8351087	7.8531945	7.8705530	7.8872537	7.9033312	29
32	7.7968431	7.8165578	7.8354163	7.8534900	7.8708416	7.8875266	7.9035942	28
33	7.7971791	7.8168793	7.8357238	7.8537850	7.8711250	7.8877993	7.9038570	27
34	7.7975148	7.8171998	7.8360311	7.8540777	7.8714082	7.8880718	7.9041197	26
35	7.7978503	7.8175204	7.8363381	7.8543743	7.8716913	7.8883442	7.9043822	25
36	7.7981856	7.8178403	7.8366449	7.8546656	7.8719741	7.8886164	7.9046445	24
37	7.7985205	7.8181610	7.8369515	7.8549568	7.8722568	7.8888885	7.9049067	23
38	7.7988553	7.8184806	7.8372579	7.8552457	7.8725393	7.8891603	7.9051687	22
39	7.7991898	7.8188006	7.8375641	7.8555355	7.8728215	7.8894320	7.9054306	21
40	7.7995240	7.8191201	7.8378701	7.8558340	7.8731037	7.8897036	7.9056923	20
41	7.7998579	7.8194393	7.8381753	7.8561374	7.8733856	7.8899749	7.9059539	19
42	7.8001916	7.8197583	7.8384813	7.8564305	7.8736673	7.8902461	7.9062153	18
43	7.8005251	7.8200770	7.8387867	7.8567235	7.8739489	7.8905171	7.9064765	17
44	7.8008582	7.8203956	7.8390918	7.8570163	7.8742303	7.8907880	7.9067376	16
45	7.8011912	7.8207139	7.8393966	7.8573088	7.8745115	7.8910587	7.9069985	15
46	7.8015238	7.8210319	7.8397013	7.8576012	7.8747925	7.8913292	7.9072593	14
47	7.8018563	7.8213497	7.8400063	7.8578934	7.8750733	7.8915995	7.9075199	13
48	7.8021884	7.8216673	7.8403100	7.8581853	7.8753540	7.8918697	7.9077804	12
49	7.8025203	7.8219847	7.8406140	7.8584771	7.8756344	7.8921397	7.9080407	11
50	7.8028520	7.8223018	7.8409179	7.8587687	7.8759147	7.8924096	7.9083008	10
51	7.8031834	7.8226187	7.8412215	7.8590601	7.8761949	7.8926792	7.9085608	9
52	7.8035146	7.8229354	7.8415249	7.8593513	7.8764743	7.8929487	7.9088207	8
53	7.8038455	7.8232518	7.8418280	7.8596423	7.8767545	7.8932181	7.9090803	7
54	7.8041761	7.8235680	7.8421310	7.8599331	7.8770341	7.8934873	7.9093399	6
55	7.8045065	7.8238840	7.8424338	7.8602237	7.8773135	7.8937563	7.9095992	5
56	7.8048366	7.8241997	7.8427363	7.8605141	7.8775927	7.8940251	7.9098584	4
57	7.8051665	7.8245153	7.8430387	7.8608043	7.8778717	7.8942933	7.9101175	3
58	7.8054962	7.8248305	7.8433403	7.8610943	7.8781506	7.8945623	7.9103764	2
59	7.8058256	7.8251456	7.8436427	7.8613841	7.8784293	7.8948306	7.9106352	1
60	7.8061547	7.8254604	7.8439444	7.8616738	7.8787077	7.8950988	7.9108938	0
"	38'	37'	36'	35'	34'	33'	32'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	28'	29'	30'	31'	32'	33'	34'	"
0	7.9108733	7.9261190	7.9408419	7.9550819	7.9688698	7.9822334	7.9951980	60
1	7.9111378	7.9263685	7.9410831	7.9553153	7.9690960	7.9824527	7.9954108	59
2	7.9113950	7.9266179	7.9413241	7.9555486	7.9693220	7.9826718	7.9956235	58
3	7.9116542	7.9268671	7.9415651	7.9557818	7.9695479	7.9828909	7.9958361	57
4	7.9119121	7.9271162	7.9418059	7.9560149	7.9697736	7.9831098	7.9960487	56
5	7.9121699	7.9273651	7.9420465	7.9562478	7.9699993	7.9833287	7.9962611	55
6	7.9124276	7.9276139	7.9422871	7.9564806	7.9702243	7.9835474	7.9964734	54
7	7.9126851	7.9278626	7.9425275	7.9567133	7.9704503	7.9837660	7.9966856	53
8	7.9129425	7.9281111	7.9427677	7.9569458	7.9706756	7.9839845	7.9968977	52
9	7.9131997	7.9283595	7.9430079	7.9571782	7.9709008	7.9842029	7.9971097	51
10	7.9134567	7.9286077	7.9432479	7.9574105	7.9711258	7.9844212	7.9973216	50
11	7.9137136	7.9288558	7.9434877	7.9576427	7.9713508	7.9846394	7.9975334	49
12	7.9139704	7.9291037	7.9437275	7.9578747	7.9715756	7.9848574	7.9977451	48
13	7.9142269	7.9293516	7.9439671	7.9581057	7.9718004	7.9850753	7.9979566	47
14	7.9144834	7.9295992	7.9442066	7.9583385	7.9720250	7.9852933	7.9981681	46
15	7.9147397	7.9298467	7.9444459	7.9585702	7.9722495	7.9855110	7.9983795	45
16	7.9149958	7.9300941	7.9446851	7.9588017	7.9724738	7.9857286	7.9985908	44
17	7.9152518	7.9303414	7.9449242	7.9590331	7.9726981	7.9859461	7.9988020	43
18	7.9155076	7.9305885	7.9451631	7.9592645	7.9729222	7.9861636	7.9990136	42
19	7.9157633	7.9308354	7.9454019	7.9594956	7.9731463	7.9863809	7.9992240	41
20	7.9160189	7.9310823	7.9456406	7.9597267	7.9733702	7.9865981	7.9994349	40
21	7.9162743	7.9313289	7.9458792	7.9599575	7.9735940	7.9868151	7.9996456	39
22	7.9165295	7.9315753	7.9461176	7.9601885	7.9738177	7.9870321	7.9998563	38
23	7.9167846	7.9318219	7.9463559	7.9604192	7.9740412	7.9872490	8.0000669	37
24	7.9170395	7.9320682	7.9465940	7.9606497	7.9742647	7.9874658	8.0002773	36
25	7.9172943	7.9323143	7.9468321	7.9608802	7.9744880	7.9876824	8.0004877	35
26	7.9175489	7.9325603	7.9470700	7.9611105	7.9747113	7.9878989	8.0006979	34
27	7.9178034	7.9328061	7.9473077	7.9613407	7.9749344	7.9881154	8.0009081	33
28	7.9180578	7.9330518	7.9475454	7.9615708	7.9751574	7.9883317	8.0011181	32
29	7.9183120	7.9332974	7.9477829	7.9618008	7.9753802	7.9885479	8.0013281	31
30	7.9185660	7.9335428	7.9480203	7.9620306	7.9756030	7.9887641	8.0015379	30
31	7.9188199	7.9337881	7.9482575	7.9622603	7.9758257	7.9889801	8.0017477	29
32	7.9190736	7.9340332	7.9484946	7.9624899	7.9760482	7.9891960	8.0019573	28
33	7.9193272	7.9342783	7.9487316	7.9627194	7.9762706	7.9894117	8.0021669	27
34	7.9195807	7.9345231	7.9489685	7.9629487	7.9764929	7.9896274	8.0023763	26
35	7.9198340	7.9347679	7.9492052	7.9631780	7.9767151	7.9898430	8.0025856	25
36	7.9200871	7.9350125	7.9494418	7.9634071	7.9769372	7.9900585	8.0027949	24
37	7.9203401	7.9352569	7.9496783	7.9636361	7.9771592	7.9902738	8.0030040	23
38	7.9205930	7.9355012	7.9499146	7.9638649	7.9773810	7.9904891	8.0032131	22
39	7.9208457	7.9357454	7.9501508	7.9640937	7.9776028	7.9907043	8.0034220	21
40	7.9210983	7.9359895	7.9503869	7.9643223	7.9778244	7.9909193	8.0036308	20
41	7.9213507	7.9362334	7.9506227	7.9645508	7.9780459	7.9911342	8.0038396	19
42	7.9216030	7.9364772	7.9508587	7.9647792	7.9782673	7.9913491	8.0040482	18
43	7.9218551	7.9367208	7.9510944	7.9650075	7.9784886	7.9915638	8.0042568	17
44	7.9221071	7.9369643	7.9513300	7.9652356	7.9787098	7.9917784	8.0044652	16
45	7.9223589	7.9372077	7.9515654	7.9654637	7.9789309	7.9919929	8.0046735	15
46	7.9226105	7.9374509	7.9518008	7.9656916	7.9791518	7.9922073	8.0048818	14
47	7.9228621	7.9376940	7.9520360	7.9659194	7.9793726	7.9924216	8.0050903	13
48	7.9231135	7.9379369	7.9522710	7.9661470	7.9795934	7.9926358	8.0052979	12
49	7.9233648	7.9381798	7.9525050	7.9663746	7.9798140	7.9928499	8.0055055	11
50	7.9236165	7.9384224	7.9527408	7.9666020	7.9800345	7.9930639	8.0057137	10
51	7.9238680	7.9386650	7.9529755	7.9668293	7.9802549	7.9932778	8.0059215	9
52	7.9241197	7.9389074	7.9532100	7.9670565	7.9804752	7.9934915	8.0061291	8
53	7.9243713	7.9391497	7.9534444	7.9672835	7.9806953	7.9937052	8.0063365	7
54	7.9246228	7.9393918	7.9536787	7.9675105	7.9809154	7.9939183	8.0065441	6
55	7.9248742	7.9396338	7.9539129	7.9677374	7.9811353	7.9941322	8.0067514	5
56	7.9251255	7.9398757	7.9541470	7.9679641	7.9813552	7.9943456	8.0069587	4
57	7.9253766	7.9401175	7.9543809	7.9681907	7.9815749	7.9945588	8.0071658	3
58	7.9256275	7.9403591	7.9546147	7.9684172	7.9817945	7.9947720	8.0073729	2
59	7.9258789	7.9406003	7.9548484	7.9686436	7.9820140	7.9949850	8.0075798	1
60	7.9261190	7.9408419	7.9550819	7.9688698	7.9822334	7.9951980	8.0077867	0
"	31'	30'	29'	28'	27'	26'	25'	"

Log. co-sin

89 deg.

0 deg.

Log. tang.

"	28'	29'	30'	31'	32'	33'	34'	"
0	7.9108935	7.9261344	7.9408553	7.9550376	7.9688386	7.9822534	7.9952192	60
1	7.9111522	7.9263840	7.9410376	7.9553330	7.9691148	7.9824727	7.9953200	59
2	7.9114105	7.9266333	7.9413447	7.9556663	7.9693408	7.9826919	7.9954448	58
3	7.9116686	7.9268826	7.9415817	7.9559995	7.9695667	7.9829110	7.9955874	57
4	7.9119269	7.9271317	7.9418225	7.9563326	7.9697925	7.9831299	7.9957000	56
5	7.9121844	7.9273807	7.9420632	7.9566655	7.9700182	7.9833488	7.9958224	55
6	7.9124421	7.9276295	7.9423037	7.9569984	7.9702438	7.9835675	7.9959447	54
7	7.9126996	7.9278782	7.9425441	7.9573310	7.9704692	7.9837862	7.9960700	53
8	7.9129570	7.9281267	7.9427844	7.9576636	7.9706945	7.9840047	7.9961911	52
9	7.9132142	7.9283751	7.9430246	7.9579961	7.9709198	7.9842231	7.9963111	51
10	7.9134713	7.9286233	7.9432646	7.9583284	7.9711442	7.9844414	7.9964340	50
11	7.9137282	7.9288714	7.9435045	7.9586606	7.9713698	7.9846595	7.9965548	49
12	7.9139850	7.9291194	7.9437442	7.9589926	7.9715947	7.9848777	7.9966766	48
13	7.9142416	7.9293672	7.9439839	7.9593246	7.9718194	7.9850957	7.9967982	47
14	7.9144980	7.9296149	7.9442233	7.9596564	7.9720441	7.9853135	7.9969187	46
15	7.9147543	7.9298625	7.9444627	7.9599881	7.9722686	7.9855313	7.9970401	45
16	7.9150105	7.9301101	7.9447019	7.9603197	7.9724930	7.9857490	7.9971614	44
17	7.9152665	7.9303571	7.9449410	7.9606511	7.9727173	7.9859665	7.9972826	43
18	7.9155224	7.9306043	7.9451800	7.9609825	7.9729414	7.9861839	7.9974036	42
19	7.9157781	7.9308512	7.9454188	7.9613137	7.9731655	7.9864013	7.9975245	41
20	7.9160336	7.9310981	7.9456575	7.9616447	7.9733894	7.9866185	7.9976455	40
21	7.9162890	7.9313448	7.9458961	7.9619757	7.9736132	7.9868356	7.9977663	39
22	7.9165443	7.9315913	7.9461345	7.9623065	7.9738359	7.9870526	7.9978870	38
23	7.9167994	7.9318378	7.9463728	7.9626373	7.9740585	7.9872695	7.9980076	37
24	7.9170543	7.9320840	7.9466110	7.9629678	7.9742810	7.9874862	7.9981281	36
25	7.9173091	7.9323302	7.9468491	7.9632983	7.9745037	7.9877029	7.9982485	35
26	7.9175638	7.9325762	7.9470870	7.9636287	7.9747263	7.9879195	7.9983688	34
27	7.9178183	7.9328220	7.9473248	7.9639591	7.9749489	7.9881359	7.9984890	33
28	7.9180727	7.9330678	7.9475624	7.9642895	7.9751717	7.9883523	7.9986092	32
29	7.9183269	7.9333133	7.9478000	7.9646199	7.9753946	7.9885685	7.9987294	31
30	7.9185809	7.9335583	7.9480374	7.9649502	7.9756174	7.9887847	7.9988495	30
31	7.9188348	7.9338041	7.9482746	7.9652806	7.9758401	7.9890007	7.9989696	29
32	7.9190886	7.9340493	7.9485118	7.9656109	7.9760627	7.9892166	7.9990896	28
33	7.9193422	7.9342943	7.9487488	7.9659412	7.9762853	7.9894324	7.9992096	27
34	7.9195957	7.9345392	7.9489856	7.9662715	7.9765079	7.9896481	7.9993296	26
35	7.9198490	7.9347839	7.9492224	7.9666018	7.9767306	7.9898637	7.9994496	25
36	7.9201022	7.9350286	7.9494590	7.9669321	7.9769532	7.9900792	7.9995696	24
37	7.9203552	7.9352730	7.9496955	7.9672624	7.9771758	7.9902946	7.9996896	23
38	7.9206081	7.9355174	7.9499319	7.9675927	7.9773984	7.9905100	7.9998096	22
39	7.9208608	7.9357616	7.9501681	7.9679230	7.9776210	7.9907254	7.9999296	21
40	7.9211134	7.9360057	7.9504042	7.9682533	7.9778436	7.9909408	7.9999996	20
41	7.9213658	7.9362496	7.9506402	7.9685836	7.9780662	7.9911551	7.9999996	19
42	7.9216181	7.9364934	7.9508750	7.9689139	7.9782887	7.9913699	7.9999996	18
43	7.9218702	7.9367370	7.9511118	7.9692442	7.9785113	7.9915847	7.9999996	17
44	7.9221222	7.9369805	7.9513474	7.9695745	7.9787339	7.9917995	7.9999996	16
45	7.9223741	7.9372239	7.9515828	7.9699048	7.9789565	7.9920138	7.9999996	15
46	7.9226255	7.9374672	7.9518182	7.9702351	7.9791791	7.9922283	7.9999996	14
47	7.9228774	7.9377103	7.9520534	7.9705654	7.9794017	7.9924427	7.9999996	13
48	7.9231288	7.9379533	7.9522885	7.9708957	7.9796243	7.9926572	7.9999996	12
49	7.9233800	7.9381961	7.9525234	7.9712260	7.9798469	7.9928716	7.9999996	11
50	7.9236312	7.9384388	7.9527582	7.9715563	7.9800695	7.9930860	7.9999996	10
51	7.9238821	7.9386814	7.9529929	7.9718866	7.9802921	7.9933004	7.9999996	9
52	7.9241330	7.9389238	7.9532275	7.9722169	7.9805147	7.9935148	7.9999996	8
53	7.9243836	7.9391661	7.9534620	7.9725472	7.9807373	7.9937292	7.9999996	7
54	7.9246342	7.9394083	7.9536963	7.9728775	7.9809599	7.9939436	7.9999996	6
55	7.9248846	7.9396503	7.9539305	7.9732078	7.9811825	7.9941580	7.9999996	5
56	7.9251348	7.9398922	7.9541646	7.9735381	7.9814051	7.9943724	7.9999996	4
57	7.9253850	7.9401339	7.9543985	7.9738684	7.9816277	7.9945868	7.9999996	3
58	7.9256349	7.9403756	7.9546323	7.9741987	7.9818503	7.9948012	7.9999996	2
59	7.9258847	7.9406170	7.9548660	7.9745290	7.9820729	7.9950156	7.9999996	1
60	7.9261344	7.9408584	7.9550976	7.9748593	7.9822954	7.9952300	7.9999996	0
"	31'	30'	29'	28'	27'	26'	25'	"

Log. co-tang.  
15\*

89 deg.

0 deg.

Log. sin.

"	35'	36'	37'	38'	39'	40'	41'	"
0	8, 0077857	8, 0200207	8, 0319195	8, 0435009	8, 0547814	8, 0657763	8, 0764997	60
1	8, 0079934	8, 0202217	8, 0321150	8, 0436913	8, 0549670	8, 0659572	8, 0766762	59
2	8, 0082001	8, 0204226	8, 0323105	8, 0438816	8, 0551524	8, 0661381	8, 0768526	58
3	8, 0084066	8, 0206234	8, 0325057	8, 0440719	8, 0553378	8, 0663188	8, 0770290	57
4	8, 0086131	8, 0208242	8, 0327012	8, 0442621	8, 0555231	8, 0664995	8, 0772032	56
5	8, 0088194	8, 0210248	8, 0328965	8, 0444522	8, 0557034	8, 0666801	8, 0773815	55
6	8, 0090257	8, 0212253	8, 0330916	8, 0446422	8, 0558935	8, 0668606	8, 0775576	54
7	8, 0092318	8, 0214258	8, 0332866	8, 0448321	8, 0560785	8, 0670411	8, 0777337	53
8	8, 0094379	8, 0216261	8, 0334816	8, 0450220	8, 0562636	8, 0672215	8, 0779097	52
9	8, 0096439	8, 0218264	8, 0336765	8, 0452117	8, 0564485	8, 0674018	8, 0780856	51
10	8, 0098497	8, 0220266	8, 0338713	8, 0454014	8, 0566333	8, 0675820	8, 0782614	50
11	8, 0100555	8, 0222267	8, 0340660	8, 0455910	8, 0568181	8, 0677622	8, 0784372	49
12	8, 0102612	8, 0224267	8, 0342606	8, 0457805	8, 0570028	8, 0679423	8, 0786129	48
13	8, 0104663	8, 0226266	8, 0344551	8, 0459700	8, 0571874	8, 0681223	8, 0787886	47
14	8, 0106722	8, 0228264	8, 0346495	8, 0461593	8, 0573719	8, 0683022	8, 0789641	46
15	8, 0108775	8, 0230261	8, 0348439	8, 0463485	8, 0575563	8, 0684821	8, 0791396	45
16	8, 0110829	8, 0232257	8, 0350382	8, 0465378	8, 0577407	8, 0686619	8, 0793151	44
17	8, 0112881	8, 0234252	8, 0352323	8, 0467269	8, 0579250	8, 0688416	8, 0794904	43
18	8, 0114932	8, 0236247	8, 0354264	8, 0469159	8, 0581092	8, 0690212	8, 0796657	42
19	8, 0116982	8, 0238240	8, 0356204	8, 0471048	8, 0582933	8, 0692008	8, 0798409	41
20	8, 0119031	8, 0240233	8, 0358143	8, 0472937	8, 0584774	8, 0693803	8, 0800161	40
21	8, 0121079	8, 0242224	8, 0360082	8, 0474825	8, 0586614	8, 0695597	8, 0801912	39
22	8, 0123125	8, 0244215	8, 0362019	8, 0476712	8, 0588453	8, 0697390	8, 0803662	38
23	8, 0125172	8, 0246205	8, 0363955	8, 0478598	8, 0590291	8, 0699183	8, 0805411	37
24	8, 0127217	8, 0248194	8, 0365892	8, 0480483	8, 0592128	8, 0700975	8, 0807160	36
25	8, 0129261	8, 0250182	8, 0367826	8, 0482368	8, 0593965	8, 0702766	8, 0808920	35
26	8, 0131304	8, 0252169	8, 0369760	8, 0484251	8, 0595801	8, 0704557	8, 0810685	34
27	8, 0133343	8, 0254155	8, 0371693	8, 0486134	8, 0597636	8, 0706346	8, 0812451	33
28	8, 0135388	8, 0256140	8, 0373626	8, 0488016	8, 0599470	8, 0708135	8, 0814217	32
29	8, 0137428	8, 0258125	8, 0375557	8, 0489897	8, 0601304	8, 0709923	8, 0815982	31
30	8, 0139468	8, 0260108	8, 0377488	8, 0491778	8, 0603137	8, 0711711	8, 0817737	30
31	8, 0141506	8, 0262091	8, 0379417	8, 0493657	8, 0604969	8, 0713498	8, 0819493	29
32	8, 0143543	8, 0264072	8, 0381346	8, 0495536	8, 0606800	8, 0715284	8, 0821253	28
33	8, 0145580	8, 0266053	8, 0383274	8, 0497414	8, 0608630	8, 0717069	8, 0823016	27
34	8, 0147615	8, 0268033	8, 0385201	8, 0499291	8, 0610460	8, 0718854	8, 0824787	26
35	8, 0149650	8, 0270012	8, 0387128	8, 0501167	8, 0612283	8, 0720637	8, 0826548	25
36	8, 0151684	8, 0271990	8, 0389053	8, 0503043	8, 0614117	8, 0722421	8, 0828308	24
37	8, 0153716	8, 0273967	8, 0390978	8, 0504918	8, 0615944	8, 0724203	8, 0829828	23
38	8, 0155748	8, 0275943	8, 0392901	8, 0506792	8, 0617771	8, 0725985	8, 0831557	22
39	8, 0157779	8, 0277919	8, 0394824	8, 0508665	8, 0619597	8, 0727765	8, 0833285	21
40	8, 0159808	8, 0279893	8, 0396746	8, 0510537	8, 0621422	8, 0729546	8, 0835042	20
41	8, 0161837	8, 0281867	8, 0398667	8, 0512408	8, 0623246	8, 0731325	8, 0836779	19
42	8, 0163865	8, 0283839	8, 0400588	8, 0514279	8, 0625070	8, 0733104	8, 0838515	18
43	8, 0165892	8, 0285811	8, 0402507	8, 0516149	8, 0626892	8, 0734882	8, 0840251	17
44	8, 0167918	8, 0287782	8, 0404426	8, 0518018	8, 0628714	8, 0736657	8, 0841985	16
45	8, 0169943	8, 0289752	8, 0406343	8, 0519886	8, 0630536	8, 0738436	8, 0843719	15
46	8, 0171967	8, 0291721	8, 0408260	8, 0521754	8, 0632356	8, 0740211	8, 0845452	14
47	8, 0173991	8, 0293689	8, 0410176	8, 0523620	8, 0634175	8, 0741986	8, 0847185	13
48	8, 0176013	8, 0295656	8, 0412092	8, 0525485	8, 0635995	8, 0743761	8, 0848917	12
49	8, 0178034	8, 0297623	8, 0414006	8, 0527351	8, 0637813	8, 0745534	8, 0850648	11
50	8, 0180055	8, 0299588	8, 0415920	8, 0529216	8, 0639630	8, 0747307	8, 0852379	10
51	8, 0182074	8, 0301553	8, 0417832	8, 0531079	8, 0641447	8, 0749080	8, 0854107	9
52	8, 0184093	8, 0303517	8, 0419744	8, 0532942	8, 0643263	8, 0750851	8, 0855838	8
53	8, 0186110	8, 0305479	8, 0421655	8, 0534803	8, 0645078	8, 0752622	8, 0857566	7
54	8, 0188127	8, 0307441	8, 0423565	8, 0536665	8, 0646893	8, 0754392	8, 0859294	6
55	8, 0190142	8, 0309403	8, 0425475	8, 0538525	8, 0648706	8, 0756161	8, 0861021	5
56	8, 0192157	8, 0311363	8, 0427383	8, 0540384	8, 0650519	8, 0757930	8, 0862747	4
57	8, 0194171	8, 0313322	8, 0429291	8, 0542243	8, 0652331	8, 0759698	8, 0864473	3
58	8, 0196184	8, 0315280	8, 0431198	8, 0544101	8, 0654143	8, 0761465	8, 0866198	2
59	8, 0198195	8, 0317238	8, 0433104	8, 0545958	8, 0655953	8, 0763231	8, 0867922	1
60	8, 0200207	8, 0319195	8, 0435009	8, 0547814	8, 0657763	8, 0764997	8, 0869646	0
"	24'	23'	22'	21'	20'	19'	18'	"

Log. co-sin.

89 deg.



0 deg.

Log. tang.

"	35'	36'	37'	38'	39'	40'	41'	"
0	8,0078022	8,0220445	8,0319446	8,0435274	8,0548094	8,0658057	8,0765306	60
1	8,0080159	8,0222455	8,0321402	8,0437179	8,0549749	8,0659566	8,0767071	59
2	8,0082226	8,0224455	8,0323357	8,0439052	8,0551504	8,0661675	8,0768835	58
3	8,0084292	8,0226473	8,0325311	8,0440935	8,0553458	8,0663483	8,0770599	57
4	8,0086357	8,0228481	8,0327265	8,0442887	8,0555312	8,0665290	8,0772352	56
5	8,0088420	8,0210487	8,0329217	8,0444788	8,0557164	8,0667096	8,0774125	55
6	8,0090483	8,0212493	8,0331169	8,0446639	8,0559016	8,0668902	8,0775886	54
7	8,0092545	8,0214498	8,0333120	8,0448588	8,0561067	8,0670707	8,0777647	53
8	8,0094606	8,0216501	8,0335069	8,0450487	8,0562917	8,0672511	8,0779407	52
9	8,0096666	8,0218504	8,0337018	8,0452385	8,0564767	8,0674314	8,0781167	51
10	8,0098725	8,0220505	8,0338967	8,0454282	8,0566615	8,0676117	8,0782926	50
11	8,0100783	8,0222507	8,0340914	8,0456173	8,0568463	8,0677919	8,0784684	49
12	8,0102840	8,0224507	8,0342860	8,0458074	8,0570310	8,0679720	8,0786441	48
13	8,0104896	8,0226507	8,0344806	8,0459968	8,0572155	8,0681520	8,0788198	47
14	8,0106951	8,0228505	8,0346750	8,0461862	8,0574002	8,0683320	8,0789954	46
15	8,0109005	8,0230502	8,0348694	8,0463755	8,0575846	8,0685118	8,0791709	45
16	8,0111058	8,0232499	8,0350637	8,0465647	8,0577690	8,0686917	8,0793464	44
17	8,0113110	8,0234494	8,0352579	8,0467538	8,0579534	8,0688714	8,0795218	43
18	8,0115161	8,0236487	8,0354520	8,0469429	8,0581376	8,0690511	8,0796971	42
19	8,0117211	8,0238483	8,0356460	8,0471318	8,0583217	8,0692306	8,0798723	41
20	8,0119260	8,0240475	8,0358400	8,0473207	8,0585058	8,0694102	8,0800475	40
21	8,0121308	8,0242467	8,0360338	8,0475095	8,0586898	8,0695896	8,0802226	39
22	8,0123356	8,0244458	8,0362276	8,0476982	8,0588737	8,0697690	8,0803976	38
23	8,0125402	8,0246448	8,0364213	8,0478869	8,0590576	8,0699483	8,0805726	37
24	8,0127447	8,0248437	8,0366149	8,0480754	8,0592414	8,0701275	8,0807475	36
25	8,0129492	8,0250426	8,0368084	8,0482639	8,0594250	8,0703065	8,0809223	35
26	8,0131535	8,0252413	8,0370018	8,0484523	8,0596087	8,0704857	8,0810970	34
27	8,0133578	8,0254399	8,0371951	8,0486406	8,0597922	8,0706647	8,0812717	33
28	8,0135619	8,0256385	8,0373884	8,0488288	8,0599756	8,0708436	8,0814463	32
29	8,0137660	8,0258369	8,0375815	8,0490169	8,0601590	8,0710225	8,0816208	31
30	8,0139699	8,0260353	8,0377746	8,0492050	8,0603423	8,0712012	8,0817953	30
31	8,0141738	8,0262336	8,0379676	8,0493930	8,0605255	8,0713799	8,0819697	29
32	8,0143775	8,0264313	8,0381605	8,0495809	8,0607087	8,0715586	8,0821440	28
33	8,0145812	8,0266299	8,0383533	8,0497687	8,0608918	8,0717371	8,0823183	27
34	8,0147848	8,0268277	8,0385461	8,0499564	8,0610748	8,0719155	8,0824925	26
35	8,0149883	8,0270258	8,0387387	8,0501441	8,0612577	8,0720940	8,0826666	25
36	8,0151916	8,0272236	8,0389313	8,0503317	8,0614405	8,0722723	8,0828406	24
37	8,0153949	8,0274213	8,0391238	8,0505192	8,0616233	8,0724506	8,0830146	23
38	8,0155981	8,0276190	8,0393162	8,0507066	8,0618060	8,0726283	8,0831885	22
39	8,0158012	8,0278166	8,0395085	8,0508939	8,0619885	8,0728069	8,0833624	21
40	8,0160042	8,0280140	8,0397007	8,0510812	8,0621711	8,0729850	8,0835361	20
41	8,0162071	8,0282114	8,0398928	8,0512683	8,0623536	8,0731629	8,0837093	19
42	8,0164099	8,0284089	8,0400849	8,0514554	8,0625359	8,0733403	8,0838835	18
43	8,0166127	8,0286065	8,0402763	8,0516424	8,0627182	8,0735185	8,0840570	17
44	8,0168153	8,0288030	8,0404687	8,0518294	8,0629005	8,0736964	8,0842305	16
45	8,0170178	8,0290000	8,0406605	8,0520162	8,0630826	8,0738741	8,0844039	15
46	8,0172203	8,0291969	8,0408522	8,0522030	8,0632647	8,0740517	8,0845773	14
47	8,0174226	8,0293935	8,0410439	8,0523897	8,0634467	8,0742292	8,0847506	13
48	8,0176248	8,0295905	8,0412354	8,0525763	8,0636286	8,0744067	8,0849238	12
49	8,0178270	8,0297872	8,0414269	8,0527623	8,0638104	8,0745841	8,0850969	11
50	8,0180291	8,0299838	8,0416183	8,0529493	8,0639922	8,0747614	8,0852700	10
51	8,0182310	8,0301802	8,0418096	8,0531366	8,0641739	8,0749386	8,0854430	9
52	8,0184329	8,0303766	8,0420008	8,0533219	8,0643555	8,0751158	8,0856160	8
53	8,0186347	8,0305729	8,0421919	8,0535081	8,0645371	8,0752929	8,0857888	7
54	8,0188364	8,0307692	8,0423829	8,0536943	8,0647185	8,0754699	8,0859616	6
55	8,0190379	8,0309653	8,0425739	8,0538803	8,0648999	8,0756469	8,0861344	5
56	8,0192394	8,0311613	8,0427648	8,0540653	8,0650812	8,0758238	8,0863070	4
57	8,0194408	8,0313573	8,0429555	8,0542522	8,0652625	8,0760005	8,0864796	3
58	8,0196422	8,0315531	8,0431462	8,0544380	8,0654436	8,0761773	8,0866522	2
59	8,0198434	8,0317489	8,0433369	8,0546237	8,0656247	8,0763540	8,0868246	1
60	8,0200445	8,0319446	8,0435274	8,0548094	8,0658057	8,0765306	8,0869970	0
"	24'	23'	22'	21'	20'	19'	18'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	42'	43'	44'	45'	46'	47'	"
0	8,0869646	8,0971832	8,1071669	8,1169262	8,1264710	8,1358104	60
1	8,0871369	8,0973515	8,1073314	8,1170870	8,1266283	8,1359644	59
2	8,0873091	8,0975198	8,1074958	8,1172478	8,1267856	8,1361183	58
3	8,0874813	8,0976879	8,1076601	8,1174085	8,1269428	8,1362722	57
4	8,0876534	8,0978560	8,1078244	8,1175691	8,1270999	8,1364260	56
5	8,0878254	8,0980240	8,1079886	8,1177297	8,1272570	8,1365797	55
6	8,0879974	8,0981920	8,1081528	8,1178902	8,1274140	8,1367334	54
7	8,0881692	8,0983599	8,1083169	8,1180507	8,1275710	8,1368871	53
8	8,0883411	8,0985277	8,1084809	8,1182111	8,1277279	8,1370407	52
9	8,0885128	8,0986955	8,1086449	8,1183714	8,1278848	8,1371942	51
10	8,0886845	8,0988632	8,1088088	8,1185317	8,1280416	8,1373477	50
11	8,0888561	8,0990309	8,1089726	8,1186919	8,1281983	8,1375011	49
12	8,0890277	8,0991984	8,1091364	8,1188520	8,1283550	8,1376545	48
13	8,0891991	8,0993669	8,1093001	8,1190121	8,1285117	8,1378073	47
14	8,0893706	8,0995334	8,1094638	8,1191722	8,1286682	8,1379610	46
15	8,0895419	8,0997008	8,1096274	8,1193322	8,1288248	8,1381143	45
16	8,0897132	8,0998681	8,1097909	8,1194921	8,1289812	8,1382674	44
17	8,0898844	8,1000353	8,1099544	8,1196519	8,1291376	8,1384205	43
18	8,0900555	8,1002025	8,1101178	8,1198118	8,1292940	8,1385736	42
19	8,0902266	8,1003697	8,1102812	8,1199715	8,1294503	8,1387265	41
20	8,0903976	8,1005367	8,1104445	8,1201312	8,1296065	8,1388795	40
21	8,0905685	8,1007037	8,1106077	8,1202908	8,1297627	8,1390324	39
22	8,0907394	8,1008706	8,1107709	8,1204504	8,1299188	8,1391852	38
23	8,0909102	8,1010375	8,1109340	8,1206099	8,1300749	8,1393380	37
24	8,0910810	8,1012043	8,1110970	8,1207693	8,1302309	8,1394907	36
25	8,0912516	8,1013710	8,1112600	8,1209287	8,1303869	8,1396434	35
26	8,0914222	8,1015377	8,1114229	8,1210881	8,1305428	8,1397960	34
27	8,0915928	8,1017043	8,1115858	8,1212474	8,1306986	8,1399485	33
28	8,0917632	8,1018709	8,1117486	8,1214066	8,1308544	8,1401011	32
29	8,0919336	8,1020374	8,1119113	8,1215657	8,1310101	8,1402535	31
30	8,0921040	8,1022038	8,1120740	8,1217248	8,1311658	8,1404059	30
31	8,0922743	8,1023701	8,1122366	8,1218839	8,1313215	8,1405583	29
32	8,0924445	8,1025364	8,1123992	8,1220429	8,1314770	8,1407105	28
33	8,0926146	8,1027027	8,1125617	8,1222018	8,1316325	8,1408628	27
34	8,0927847	8,1028688	8,1127241	8,1223607	8,1317880	8,1410150	26
35	8,0929547	8,1030349	8,1128865	8,1225195	8,1319434	8,1411671	25
36	8,0931246	8,1032010	8,1130488	8,1226782	8,1320987	8,1413192	24
37	8,0932945	8,1033669	8,1132110	8,1228369	8,1322540	8,1414712	23
38	8,0934643	8,1035328	8,1133732	8,1229956	8,1324093	8,1416232	22
39	8,0936340	8,1036987	8,1135354	8,1231541	8,1325644	8,1417751	21
40	8,0938037	8,1038645	8,1136974	8,1233127	8,1327196	8,1419270	20
41	8,0939733	8,1040302	8,1138595	8,1234711	8,1328746	8,1420788	19
42	8,0941428	8,1041959	8,1140214	8,1236295	8,1330296	8,1422306	18
43	8,0943123	8,1043615	8,1141833	8,1237879	8,1331846	8,1423823	17
44	8,0944817	8,1045270	8,1143451	8,1239462	8,1333395	8,1425339	16
45	8,0946510	8,1046925	8,1145069	8,1241044	8,1334943	8,1426855	15
46	8,0948203	8,1048579	8,1146686	8,1242626	8,1336491	8,1428371	14
47	8,0949895	8,1050232	8,1148302	8,1244207	8,1338039	8,1429886	13
48	8,0951587	8,1051885	8,1149918	8,1245787	8,1339586	8,1431400	12
49	8,0953277	8,1053537	8,1151534	8,1247367	8,1341132	8,1432914	11
50	8,0954968	8,1055188	8,1153148	8,1248947	8,1342678	8,1434427	10
51	8,0956657	8,1056839	8,1154762	8,1250526	8,1344223	8,1435940	9
52	8,0958346	8,1058490	8,1156376	8,1252104	8,1345767	8,1437453	8
53	8,0959934	8,1060139	8,1157989	8,1253682	8,1347311	8,1438964	7
54	8,0961621	8,1061788	8,1159601	8,1255259	8,1348855	8,1440476	6
55	8,0963308	8,1063437	8,1161213	8,1256836	8,1350398	8,1441987	5
56	8,0965000	8,1065085	8,1162824	8,1258412	8,1351940	8,1443497	4
57	8,0966680	8,1066732	8,1164434	8,1259987	8,1353482	8,1445006	3
58	8,0968365	8,1068378	8,1166044	8,1261562	8,1355023	8,1446516	2
59	8,0970049	8,1070024	8,1167654	8,1263136	8,1356564	8,1448024	1
60	8,0971832	8,1071669	8,1169262	8,1264710	8,1358104	8,1449532	0
"	17'	16'	15'	14'	13'	12'	"

Log. sin.

89 deg.

0 deg.

Log. tang.

"	42'	43'	44'	45'	46'	47'	"
0	8,0869770	8,0972172	8,1072025	8,1169634	8,1265099	8,1358510	60
1	8,0871693	8,0973855	8,1073670	8,1171243	8,1266672	8,1360050	59
2	8,0873416	8,0975538	8,1075344	8,1172851	8,1268245	8,1361590	58
3	8,0875138	8,0977220	8,1076958	8,1174458	8,1269817	8,1363139	57
4	8,0876859	8,0978901	8,1078601	8,1176064	8,1271389	8,1364667	56
5	8,0878579	8,0980582	8,1080243	8,1177670	8,1272960	8,1366205	55
6	8,0880299	8,0982261	8,1081885	8,1179276	8,1274531	8,1367742	54
7	8,0882018	8,0983941	8,1083526	8,1180881	8,1276101	8,1369279	53
8	8,0883737	8,0985619	8,1085167	8,1182485	8,1277670	8,1370815	52
9	8,0885455	8,0987297	8,1086807	8,1184088	8,1279239	8,1372350	51
10	8,0887172	8,0988975	8,1088446	8,1185691	8,1280807	8,1373886	50
11	8,0888888	8,0990651	8,1090085	8,1187294	8,1282375	8,1375420	49
12	8,0890604	8,0992327	8,1091723	8,1188896	8,1283942	8,1376954	48
13	8,0892319	8,0994003	8,1093361	8,1190497	8,1285509	8,1378483	47
14	8,0894033	8,0995677	8,1094998	8,1192098	8,1287075	8,1380020	46
15	8,0895747	8,0997351	8,1096634	8,1193698	8,1288641	8,1381553	45
16	8,0897460	8,0999025	8,1098269	8,1195297	8,1290206	8,1383085	44
17	8,0899172	8,1000698	8,1099904	8,1196896	8,1291770	8,1384616	43
18	8,0900884	8,1002370	8,1101539	8,1198495	8,1293334	8,1386147	42
19	8,0902595	8,1004041	8,1103173	8,1200092	8,1294897	8,1387677	41
20	8,0904305	8,1005712	8,1104806	8,1201689	8,1296460	8,1389207	40
21	8,0906015	8,1007382	8,1106438	8,1203286	8,1298022	8,1390736	39
22	8,0907724	8,1009052	8,1108070	8,1204882	8,1299583	8,1392264	38
23	8,0909432	8,1010721	8,1109702	8,1206477	8,1301144	8,1393792	37
24	8,0911140	8,1012389	8,1111332	8,1208072	8,1302705	8,1395320	36
25	8,0912847	8,1014057	8,1112962	8,1209666	8,1304265	8,1396847	35
26	8,0914553	8,1015724	8,1114592	8,1211260	8,1305824	8,1398373	34
27	8,0916259	8,1017390	8,1116221	8,1212853	8,1307383	8,1399899	33
28	8,0917964	8,1019056	8,1117849	8,1214446	8,1308941	8,1401425	32
29	8,0919668	8,1020721	8,1119477	8,1216037	8,1310498	8,1402949	31
30	8,0921372	8,1022386	8,1121104	8,1217629	8,1312055	8,1404474	30
31	8,0923075	8,1024049	8,1122730	8,1219219	8,1313612	8,1405997	29
32	8,0924777	8,1025713	8,1124356	8,1220810	8,1315168	8,1407521	28
33	8,0926479	8,1027375	8,1125981	8,1222399	8,1316725	8,1409043	27
34	8,0928180	8,1029037	8,1127606	8,1223988	8,1318278	8,1410566	26
35	8,0929880	8,1030698	8,1129230	8,1225577	8,1319833	8,1412087	25
36	8,0931579	8,1032359	8,1130853	8,1227164	8,1321386	8,1413603	24
37	8,0933278	8,1034019	8,1132476	8,1228752	8,1322940	8,1415129	23
38	8,0934977	8,1035678	8,1134098	8,1230333	8,1324492	8,1416649	22
39	8,0936674	8,1037337	8,1135720	8,1231924	8,1326044	8,1418163	21
40	8,0938371	8,1038995	8,1137341	8,1233510	8,1327596	8,1419697	20
41	8,0940068	8,1040653	8,1138961	8,1235095	8,1329147	8,1421206	19
42	8,0941763	8,1042309	8,1140581	8,1236679	8,1330697	8,1422724	18
43	8,0943458	8,1043966	8,1142200	8,1238263	8,1332247	8,1424241	17
44	8,0945153	8,1045621	8,1143819	8,1239846	8,1333796	8,1425758	16
45	8,0946846	8,1047276	8,1145437	8,1241429	8,1335345	8,1427274	15
46	8,0948539	8,1048931	8,1147054	8,1243011	8,1336893	8,1428790	14
47	8,0950232	8,1050584	8,1148671	8,1244592	8,1338441	8,1430305	13
48	8,0951923	8,1052237	8,1150287	8,1246173	8,1339988	8,1431820	12
49	8,0953614	8,1053890	8,1151903	8,1247753	8,1341535	8,1433334	11
50	8,0955305	8,1055542	8,1153518	8,1249333	8,1343081	8,1434848	10
51	8,0956994	8,1057193	8,1155132	8,1250912	8,1344626	8,1436361	9
52	8,0958683	8,1058843	8,1156746	8,1252491	8,1346171	8,1437874	8
53	8,0960372	8,1060493	8,1158359	8,1254069	8,1347715	8,1439386	7
54	8,0962060	8,1062142	8,1159972	8,1255646	8,1349259	8,1440897	6
55	8,0963747	8,1063791	8,1161584	8,1257223	8,1350802	8,1442408	5
56	8,0965433	8,1065439	8,1163195	8,1258800	8,1352345	8,1443919	4
57	8,0967119	8,1067087	8,1164806	8,1260375	8,1353887	8,1445429	3
58	8,0968804	8,1068733	8,1166416	8,1261950	8,1355429	8,1446938	2
59	8,0970488	8,1070380	8,1168025	8,1263525	8,1356970	8,1448447	1
60	8,0972172	8,1072025	8,1169634	8,1265099	8,1358510	8,1449956	0
"	17'	16'	15'	14'	13'	12'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	48'	49'	50'	51'	52'	53'	"
0	8, 144532	8, 1539075	8, 1626808	8, 1712804	8, 1797129	8, 1879848	60
1	8, 1451040	8, 1540552	8, 1628255	8, 1714223	8, 1798521	8, 1881213	59
2	8, 1456547	8, 1542028	8, 1629702	8, 1715641	8, 1799912	8, 1882578	58
3	8, 1454054	8, 1543504	8, 1631149	8, 1717059	8, 1801303	8, 1883943	57
4	8, 1455560	8, 1544979	8, 1632594	8, 1718477	8, 1802693	8, 1885307	56
5	8, 1457065	8, 1546454	8, 1634040	8, 1719854	8, 1804083	8, 1886670	55
6	8, 1458570	8, 1547928	8, 1635485	8, 1721310	8, 1805472	8, 1888034	54
7	8, 1460075	8, 1549402	8, 1636929	8, 1722726	8, 1806861	8, 1889397	53
8	8, 1461579	8, 1550876	8, 1638373	8, 1724142	8, 1808250	8, 1890759	52
9	8, 1463082	8, 1552348	8, 1639817	8, 1725557	8, 1809638	8, 1892121	51
10	8, 1464585	8, 1553821	8, 1641259	8, 1726972	8, 1811025	8, 1893482	50
11	8, 1466087	8, 1555293	8, 1642702	8, 1728386	8, 1812413	8, 1894843	49
12	8, 1467589	8, 1556764	8, 1644144	8, 1729800	8, 1813799	8, 1896204	48
13	8, 1469091	8, 1558235	8, 1645586	8, 1731215	8, 1815185	8, 1897564	47
14	8, 1470591	8, 1559705	8, 1647027	8, 1732627	8, 1816571	8, 1898924	46
15	8, 1472092	8, 1561175	8, 1648467	8, 1734039	8, 1817957	8, 1900284	45
16	8, 1473592	8, 1562644	8, 1649907	8, 1735451	8, 1819342	8, 1901643	44
17	8, 1475091	8, 1564113	8, 1651347	8, 1736863	8, 1820726	8, 1903001	43
18	8, 1476590	8, 1565582	8, 1652786	8, 1738274	8, 1822111	8, 1904357	42
19	8, 1478088	8, 1567049	8, 1654225	8, 1739684	8, 1823494	8, 1905711	41
20	8, 1479586	8, 1568517	8, 1655663	8, 1741094	8, 1824877	8, 1907074	40
21	8, 1481083	8, 1569984	8, 1657101	8, 1742504	8, 1826260	8, 1908433	39
22	8, 1482579	8, 1571450	8, 1658538	8, 1743913	8, 1827643	8, 1909788	38
23	8, 1484076	8, 1572916	8, 1659975	8, 1745322	8, 1829026	8, 1911144	37
24	8, 1485571	8, 1574381	8, 1661411	8, 1746731	8, 1830406	8, 1912499	36
25	8, 1487066	8, 1575846	8, 1662847	8, 1748138	8, 1831787	8, 1913854	35
26	8, 1488561	8, 1577310	8, 1664282	8, 1749546	8, 1833167	8, 1915209	34
27	8, 1490055	8, 1578774	8, 1665717	8, 1750953	8, 1834548	8, 1916563	33
28	8, 1491549	8, 1580238	8, 1667151	8, 1752359	8, 1835927	8, 1917917	32
29	8, 1493042	8, 1581701	8, 1668585	8, 1753765	8, 1837307	8, 1919271	31
30	8, 1494534	8, 1583163	8, 1670019	8, 1755171	8, 1838685	8, 1920624	30
31	8, 1496027	8, 1584625	8, 1671452	8, 1756576	8, 1840064	8, 1921977	29
32	8, 1497518	8, 1586086	8, 1672884	8, 1757981	8, 1841442	8, 1923329	28
33	8, 1499009	8, 1587547	8, 1674316	8, 1759385	8, 1842819	8, 1924680	27
34	8, 1500500	8, 1589008	8, 1675748	8, 1760789	8, 1844196	8, 1926032	26
35	8, 1501990	8, 1590468	8, 1677179	8, 1762192	8, 1845573	8, 1927383	25
36	8, 1503479	8, 1591927	8, 1678610	8, 1763595	8, 1846949	8, 1928733	24
37	8, 1504968	8, 1593386	8, 1680040	8, 1764998	8, 1848325	8, 1930083	23
38	8, 1506457	8, 1594845	8, 1681469	8, 1766400	8, 1849700	8, 1931433	22
39	8, 1507945	8, 1596303	8, 1682899	8, 1767801	8, 1851075	8, 1932782	21
40	8, 1509432	8, 1597760	8, 1684327	8, 1769202	8, 1852450	8, 1934131	20
41	8, 1510919	8, 1599217	8, 1685756	8, 1770603	8, 1853824	8, 1935479	19
42	8, 1512406	8, 1600674	8, 1687183	8, 1772003	8, 1855197	8, 1936827	18
43	8, 1513891	8, 1602130	8, 1688611	8, 1773403	8, 1856570	8, 1938175	17
44	8, 1515377	8, 1603585	8, 1690038	8, 1774802	8, 1857943	8, 1939522	16
45	8, 1516862	8, 1605040	8, 1691464	8, 1776201	8, 1859315	8, 1940869	15
46	8, 1518346	8, 1606495	8, 1692890	8, 1777599	8, 1860687	8, 1942215	14
47	8, 1519830	8, 1607949	8, 1694315	8, 1778997	8, 1862059	8, 1943561	13
48	8, 1521314	8, 1609403	8, 1695740	8, 1780394	8, 1863430	8, 1944907	12
49	8, 1522796	8, 1610856	8, 1697165	8, 1781791	8, 1864800	8, 1946252	11
50	8, 1524279	8, 1612308	8, 1698589	8, 1783188	8, 1866170	8, 1947596	10
51	8, 1525761	8, 1613761	8, 1700012	8, 1784584	8, 1867540	8, 1948941	9
52	8, 1527242	8, 1615212	8, 1701435	8, 1785980	8, 1868909	8, 1950284	8
53	8, 1528723	8, 1616663	8, 1702858	8, 1787375	8, 1870278	8, 1951628	7
54	8, 1530203	8, 1618114	8, 1704280	8, 1788770	8, 1871646	8, 1952971	6
55	8, 1531683	8, 1619564	8, 1705702	8, 1790164	8, 1873014	8, 1954313	5
56	8, 1533163	8, 1621014	8, 1707123	8, 1791558	8, 1874382	8, 1955656	4
57	8, 1534641	8, 1622463	8, 1708544	8, 1792951	8, 1875749	8, 1956997	3
58	8, 1536120	8, 1623912	8, 1709964	8, 1794344	8, 1877116	8, 1958339	2
59	8, 1537598	8, 1625360	8, 1711384	8, 1795737	8, 1878482	8, 1959680	1
60	8, 1539075	8, 1626808	8, 1712804	8, 1797129	8, 1879848	8, 1961020	0
"	11'	10'	9	8'	7'	6'	"

Log. co-sin.

89 deg.



0 deg.

Log. tang.

"	48'	49'	50'	51'	52'	53'	"
0	8.1449956	8.1539516	8.1627267	8.1713282	8.1797626	8.1880364	60
1	8.1451464	8.1540993	8.1628715	8.1714701	8.1799018	8.1881730	59
2	8.1452971	8.1542470	8.1630162	8.1716120	8.1800409	8.1883095	58
3	8.1454478	8.1543946	8.1631609	8.1717538	8.1801800	8.1884460	57
4	8.1455984	8.1545422	8.1633055	8.1718956	8.1803191	8.1885824	56
5	8.1457490	8.1546897	8.1634501	8.1720373	8.1804581	8.1887188	55
6	8.1458995	8.1548371	8.1635946	8.1721790	8.1805971	8.1888552	54
7	8.1460500	8.1549846	8.1637391	8.1723207	8.1807360	8.1889915	53
8	8.1462004	8.1551319	8.1638835	8.1724623	8.1808749	8.1891278	52
9	8.1463508	8.1552792	8.1640279	8.1726038	8.1810137	8.1892640	51
10	8.1465011	8.1554265	8.1641722	8.1727453	8.1811525	8.1894002	50
11	8.1466516	8.1555737	8.1643165	8.1728868	8.1812913	8.1895363	49
12	8.1468016	8.1557209	8.1644607	8.1730282	8.1814300	8.1896724	48
13	8.1469518	8.1558680	8.1646049	8.1731696	8.1815687	8.1898085	47
14	8.1471019	8.1560151	8.1647490	8.1733109	8.1817073	8.1899445	46
15	8.1472520	8.1561621	8.1648931	8.1734522	8.1818459	8.1900805	45
16	8.1474020	8.1563090	8.1650372	8.1735934	8.1819844	8.1902164	44
17	8.1475519	8.1564552	8.1651812	8.1737346	8.1821229	8.1903523	43
18	8.1477018	8.1566028	8.1653251	8.1738757	8.1822613	8.1904881	42
19	8.1478517	8.1567496	8.1654690	8.1740168	8.1823997	8.1906239	41
20	8.1480015	8.1568964	8.1656128	8.1741579	8.1825381	8.1907597	40
21	8.1481512	8.1570431	8.1657566	8.1742989	8.1826764	8.1908954	39
22	8.1483009	8.1571898	8.1659004	8.1744398	8.1828146	8.1910311	38
23	8.1484506	8.1573364	8.1660441	8.1745807	8.1829529	8.1911667	37
24	8.1486002	8.1574830	8.1661878	8.1747216	8.1830910	8.1913023	36
25	8.1487497	8.1576295	8.1663314	8.1748624	8.1832292	8.1914379	35
26	8.1488992	8.1577759	8.1664749	8.1750032	8.1833673	8.1915734	34
27	8.1490487	8.1579224	8.1666185	8.1751439	8.1835053	8.1917088	33
28	8.1491980	8.1580687	8.1667619	8.1752846	8.1836433	8.1918442	32
29	8.1493474	8.1582151	8.1669054	8.1754252	8.1837813	8.1919796	31
30	8.1494967	8.1583613	8.1670487	8.1755658	8.1839192	8.1921150	30
31	8.1496459	8.1585076	8.1671921	8.1757064	8.1840571	8.1922503	29
32	8.1497951	8.1586537	8.1673353	8.1758469	8.1841949	8.1923858	28
33	8.1499442	8.1587999	8.1674786	8.1759873	8.1843327	8.1925207	27
34	8.1500933	8.1589459	8.1676218	8.1761278	8.1844704	8.1926559	26
35	8.1502423	8.1590920	8.1677649	8.1762681	8.1846081	8.1927910	25
36	8.1503913	8.1592379	8.1679080	8.1764084	8.1847458	8.1929261	24
37	8.1505402	8.1593839	8.1680510	8.1765487	8.1848833	8.1930611	23
38	8.1506891	8.1595297	8.1681940	8.1766889	8.1850209	8.1931961	22
39	8.1508380	8.1596756	8.1683370	8.1768291	8.1851585	8.1933311	21
40	8.1509867	8.1598213	8.1684799	8.1769693	8.1852959	8.1934660	20
41	8.1511355	8.1599671	8.1686228	8.1771094	8.1854334	8.1936009	19
42	8.1512841	8.1601123	8.1687656	8.1772494	8.1855708	8.1937357	18
43	8.1514328	8.1602584	8.1689083	8.1773894	8.1857081	8.1938705	17
44	8.1515813	8.1604040	8.1690510	8.1775294	8.1858454	8.1940053	16
45	8.1517299	8.1605495	8.1691937	8.1776693	8.1859827	8.1941400	15
46	8.1518783	8.1606950	8.1693363	8.1778091	8.1861199	8.1942746	14
47	8.1520267	8.1608404	8.1694789	8.1779490	8.1862571	8.1944093	13
48	8.1521751	8.1609858	8.1696214	8.1780887	8.1863942	8.1945439	12
49	8.1523234	8.1611312	8.1697639	8.1782285	8.1865313	8.1946784	11
50	8.1524717	8.1612765	8.1699064	8.1783682	8.1866683	8.1948129	10
51	8.1526199	8.1614217	8.1700487	8.1785078	8.1868053	8.1949473	9
52	8.1527681	8.1615666	8.1701911	8.1786474	8.1869423	8.1950818	8
53	8.1529162	8.1617121	8.1703334	8.1787870	8.1870792	8.1952161	7
54	8.1530643	8.1618572	8.1704756	8.1789265	8.1872161	8.1953505	6
55	8.1532123	8.1620022	8.1706178	8.1790659	8.1873529	8.1954848	5
56	8.1533603	8.1621472	8.1707600	8.1792054	8.1874897	8.1956190	4
57	8.1535082	8.1622922	8.1709021	8.1793447	8.1876254	8.1957532	3
58	8.1536560	8.1624371	8.1710442	8.1794841	8.1877631	8.1958874	2
59	8.1538038	8.1625819	8.1711862	8.1796233	8.1878998	8.1960215	1
60	8.1539516	8.1627267	8.1713282	8.1797626	8.1880364	8.1961556	0
"	11'	10'	9	8'	7'	6'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	54'	55'	56'	57'	58'	59'	"
0	8.1961020	8.2040703	8.2118949	8.2195811	8.2271335	8.2346568	60
1	8.1962260	8.2042019	8.2120242	8.2197030	8.2272583	8.2347795	59
2	8.1963700	8.2043334	8.2121533	8.2198247	8.2273830	8.2349021	58
3	8.1965039	8.2044649	8.2122825	8.2199461	8.2275077	8.2350247	57
4	8.1966378	8.2045963	8.2124116	8.2200687	8.2276324	8.2351472	56
5	8.1967717	8.2047277	8.2125407	8.2201915	8.2277570	8.2352697	55
6	8.1969055	8.2048591	8.2126697	8.2203143	8.2278816	8.2353922	54
7	8.1970392	8.2049905	8.2127987	8.2204369	8.2280061	8.2355147	53
8	8.1971729	8.2051218	8.2129277	8.2205595	8.2281306	8.2356371	52
9	8.1973066	8.2052530	8.2130566	8.2206823	8.2282551	8.2357594	51
10	8.1974403	8.2053842	8.2131854	8.2208050	8.2283796	8.2358818	50
11	8.1975739	8.2055154	8.2133143	8.2209276	8.2285040	8.2360041	49
12	8.1977074	8.2056465	8.2134431	8.2210501	8.2286284	8.2361264	48
13	8.1978409	8.2057776	8.2135719	8.2211726	8.2287527	8.2362486	47
14	8.1979744	8.2059087	8.2137006	8.2212951	8.2288770	8.2363708	46
15	8.1981078	8.2060397	8.2138293	8.2214175	8.2290013	8.2364930	45
16	8.1982412	8.2061707	8.2139579	8.2215400	8.2291255	8.2366151	44
17	8.1983746	8.2063016	8.2140865	8.2216624	8.2292497	8.2367372	43
18	8.1985079	8.2064325	8.2142151	8.2217848	8.2293739	8.2368593	42
19	8.1986412	8.2065634	8.2143436	8.2219072	8.2294980	8.2369813	41
20	8.1987744	8.2066942	8.2144721	8.2220296	8.2296221	8.2371033	40
21	8.1989078	8.2068250	8.2146005	8.2221520	8.2297461	8.2372253	39
22	8.1990412	8.2069557	8.2147289	8.2222744	8.2298701	8.2373472	38
23	8.1991746	8.2070864	8.2148574	8.2223968	8.2299941	8.2374691	37
24	8.1993079	8.2072171	8.2149857	8.2225192	8.2301181	8.2375910	36
25	8.1994413	8.2073477	8.2151140	8.2226416	8.2302420	8.2377128	35
26	8.1995746	8.2074783	8.2152423	8.2227640	8.2303659	8.2378346	34
27	8.1997079	8.2076088	8.2153705	8.2228864	8.2304897	8.2379563	33
28	8.1998413	8.2077393	8.2154987	8.2230088	8.2306135	8.2380780	32
29	8.1999746	8.2078698	8.2156269	8.2231312	8.2307373	8.2382000	31
30	8.2001079	8.2080002	8.2157550	8.2232536	8.2308610	8.2383214	30
31	8.2002413	8.2081306	8.2158831	8.2233760	8.2309847	8.2384430	29
32	8.2003746	8.2082610	8.2160111	8.2234984	8.2311084	8.2385646	28
33	8.2005079	8.2083913	8.2161391	8.2236208	8.2312320	8.2386862	27
34	8.2006413	8.2085216	8.2162671	8.2237432	8.2313555	8.2388077	26
35	8.2007746	8.2086518	8.2163950	8.2238656	8.2314792	8.2389292	25
36	8.2009079	8.2087820	8.2165229	8.2239880	8.2316027	8.2390506	24
37	8.2010413	8.2089121	8.2166508	8.2241104	8.2317262	8.2391720	23
38	8.2011746	8.2090422	8.2167786	8.2242328	8.2318496	8.2392934	22
39	8.2013079	8.2091723	8.2169064	8.2243552	8.2319731	8.2394148	21
40	8.2014413	8.2093024	8.2170341	8.2244776	8.2320965	8.2395361	20
41	8.2015746	8.2094324	8.2171618	8.2245999	8.2322198	8.2396574	19
42	8.2017079	8.2095623	8.2172895	8.2247223	8.2323431	8.2397786	18
43	8.2018413	8.2096922	8.2174171	8.2248447	8.2324664	8.2398998	17
44	8.2019746	8.2098221	8.2175447	8.2249671	8.2325896	8.2399910	16
45	8.2021079	8.2099520	8.2176723	8.2250895	8.2327128	8.2400922	15
46	8.2022413	8.2100818	8.2177998	8.2252119	8.2328360	8.2401933	14
47	8.2023746	8.2102115	8.2179273	8.2253343	8.2329592	8.2402944	13
48	8.2025079	8.2103412	8.2180547	8.2254567	8.2330823	8.2403955	12
49	8.2026413	8.2104709	8.2181821	8.2255791	8.2332055	8.2404966	11
50	8.2027746	8.2106006	8.2183095	8.2257015	8.2333284	8.2405974	10
51	8.2029079	8.2107302	8.2184368	8.2258239	8.2334514	8.2406983	9
52	8.2030413	8.2108598	8.2185641	8.2259463	8.2335743	8.2407991	8
53	8.2031746	8.2109893	8.2186913	8.2260687	8.2336973	8.2409000	7
54	8.2033079	8.2111188	8.2188186	8.2261911	8.2338202	8.2410010	6
55	8.2034413	8.2112482	8.2189457	8.2263135	8.2339430	8.2411018	5
56	8.2035746	8.2113777	8.2190729	8.2264359	8.2340659	8.2412025	4
57	8.2037079	8.2115070	8.2192000	8.2265583	8.2341886	8.2413033	3
58	8.2038413	8.2116364	8.2193270	8.2266807	8.2343114	8.2414040	2
59	8.2039746	8.2117657	8.2194541	8.2268031	8.2344341	8.2415047	1
60	8.2041079	8.2118949	8.2195811	8.2269255	8.2345568	8.2416053	0
"	5'	4'	3'	2'	1'	0'	"

Log. co-sin.

89 deg.

0 deg.

Log. tang.

"	54'	55'	56'	57'	58'	59'	"
0	8, 1961556	8, 2041259	8, 2119526	8, 2196408	8, 2271953	8, 2346208	60
1	8, 1962896	8, 2042575	8, 2120818	8, 2197678	8, 2273201	8, 2347435	59
2	8, 1964236	8, 2043890	8, 2122110	8, 2198947	8, 2274449	8, 2348661	58
3	8, 1965576	8, 2045206	8, 2123402	8, 2200216	8, 2275696	8, 2349887	57
4	8, 1966915	8, 2046521	8, 2124694	8, 2201485	8, 2276943	8, 2351113	56
5	8, 1968254	8, 2047835	8, 2125985	8, 2202754	8, 2278190	8, 2352339	55
6	8, 1969592	8, 2049149	8, 2127275	8, 2204022	8, 2279436	8, 2353564	54
7	8, 1970930	8, 2050463	8, 2128566	8, 2205289	8, 2280682	8, 2354789	53
8	8, 1972268	8, 2051776	8, 2129855	8, 2206557	8, 2281927	8, 2356013	52
9	8, 1973605	8, 2053089	8, 2131145	8, 2207824	8, 2283173	8, 2357237	51
10	8, 1974942	8, 2054401	8, 2132434	8, 2209090	8, 2284417	8, 2358461	50
11	8, 1976278	8, 2055714	8, 2133723	8, 2210356	8, 2285662	8, 2359684	49
12	8, 1977614	8, 2057025	8, 2135011	8, 2211622	8, 2286906	8, 2360908	48
13	8, 1978949	8, 2058337	8, 2136299	8, 2212888	8, 2288150	8, 2362130	47
14	8, 1980284	8, 2059647	8, 2137587	8, 2214153	8, 2289393	8, 2363353	46
15	8, 1981619	8, 2060958	8, 2138874	8, 2215418	8, 2290636	8, 2364575	45
16	8, 1982953	8, 2062268	8, 2140161	8, 2216682	8, 2291879	8, 2365796	44
17	8, 1984287	8, 2063578	8, 2141447	8, 2217946	8, 2293121	8, 2367018	43
18	8, 1985621	8, 2064887	8, 2142733	8, 2219210	8, 2294363	8, 2368239	42
19	8, 1986954	8, 2066196	8, 2144019	8, 2220473	8, 2295605	8, 2369460	41
20	8, 1988286	8, 2067505	8, 2145304	8, 2221736	8, 2296846	8, 2370680	40
21	8, 1989619	8, 2068813	8, 2146589	8, 2222998	8, 2298087	8, 2371900	39
22	8, 1990950	8, 2070120	8, 2147874	8, 2224260	8, 2299327	8, 2373120	38
23	8, 1992282	8, 2071428	8, 2149158	8, 2225522	8, 2300568	8, 2374339	37
24	8, 1993613	8, 2072735	8, 2150442	8, 2226784	8, 2301807	8, 2375558	36
25	8, 1994943	8, 2074041	8, 2151725	8, 2228045	8, 2303047	8, 2376776	35
26	8, 1996273	8, 2075348	8, 2153008	8, 2229305	8, 2304286	8, 2377995	34
27	8, 1997603	8, 2076653	8, 2154291	8, 2230566	8, 2305525	8, 2379213	33
28	8, 1998933	8, 2077959	8, 2155573	8, 2231826	8, 2306763	8, 2380430	32
29	8, 2000252	8, 2079254	8, 2156855	8, 2233085	8, 2308001	8, 2381648	31
30	8, 2001590	8, 2080563	8, 2158137	8, 2234345	8, 2309239	8, 2382865	30
31	8, 2002918	8, 2081873	8, 2159418	8, 2235604	8, 2310476	8, 2384081	29
32	8, 2004246	8, 2083176	8, 2160699	8, 2236862	8, 2311713	8, 2385297	28
33	8, 2005573	8, 2084480	8, 2161979	8, 2238120	8, 2312950	8, 2386513	27
34	8, 2006900	8, 2085783	8, 2163259	8, 2239378	8, 2314186	8, 2387729	26
35	8, 2008227	8, 2087086	8, 2164539	8, 2240635	8, 2315422	8, 2388944	25
36	8, 2009553	8, 2088388	8, 2165818	8, 2241892	8, 2316658	8, 2390159	24
37	8, 2010879	8, 2089690	8, 2167097	8, 2243149	8, 2317893	8, 2391373	23
38	8, 2012204	8, 2090991	8, 2168375	8, 2244405	8, 2319128	8, 2392588	22
39	8, 2013529	8, 2092292	8, 2169653	8, 2245661	8, 2320363	8, 2393802	21
40	8, 2014853	8, 2093593	8, 2170931	8, 2246917	8, 2321597	8, 2395015	20
41	8, 2016177	8, 2094893	8, 2172209	8, 2248172	8, 2322831	8, 2396228	19
42	8, 2017501	8, 2096193	8, 2173486	8, 2249427	8, 2324064	8, 2397441	18
43	8, 2018824	8, 2097493	8, 2174762	8, 2250682	8, 2325297	8, 2398654	17
44	8, 2020147	8, 2098792	8, 2176038	8, 2251936	8, 2326530	8, 2399866	16
45	8, 2021470	8, 2100091	8, 2177314	8, 2253190	8, 2327763	8, 2401078	15
46	8, 2022792	8, 2101389	8, 2178590	8, 2254443	8, 2328995	8, 2402289	14
47	8, 2024113	8, 2102687	8, 2179865	8, 2255696	8, 2330227	8, 2403500	13
48	8, 2025435	8, 2103985	8, 2181140	8, 2256949	8, 2331458	8, 2404711	12
49	8, 2026756	8, 2105282	8, 2182414	8, 2258201	8, 2332689	8, 2405922	11
50	8, 2028076	8, 2106579	8, 2183683	8, 2259453	8, 2333920	8, 2407132	10
51	8, 2029396	8, 2107875	8, 2184962	8, 2260705	8, 2335150	8, 2408342	9
52	8, 2030716	8, 2109171	8, 2186235	8, 2261956	8, 2336380	8, 2409551	8
53	8, 2032035	8, 2110467	8, 2187508	8, 2263207	8, 2337610	8, 2410760	7
54	8, 2033354	8, 2111762	8, 2188780	8, 2264457	8, 2338839	8, 2411969	6
55	8, 2034672	8, 2113057	8, 2190053	8, 2265708	8, 2340068	8, 2413177	5
56	8, 2035990	8, 2114351	8, 2191324	8, 2266957	8, 2341297	8, 2414386	4
57	8, 2037308	8, 2115646	8, 2192596	8, 2268207	8, 2342525	8, 2415593	3
58	8, 2038625	8, 2116939	8, 2193867	8, 2269455	8, 2343753	8, 2416801	2
59	8, 2039942	8, 2118233	8, 2195137	8, 2270705	8, 2344980	8, 2418008	1
60	8, 2041259	8, 2119526	8, 2196408	8, 2271953	8, 2346208	8, 2419215	0
"	5'	4'	3'	2'	1'	0'	"

Log. co-tang.

89 deg

0 deg.

	l. cos.	diff. 10''	l. cot.	diff.			l. cos.	diff. 10''	l. cot.	diff.			l. cos.	diff. 10''	l. cot.	diff.
0'	1,0000000				60'	30'	9,9999835	2,0	2,0591416	24062	30'					
30'	1,0000000	0,0	3,8373030	3010300	30'	30'	9,9999829		2,0519626	23668	30'					
1'	1,0000000		3,5362730	1249388	50'	31'	9,9999823		2,0449004	23288	29'					
30'	1,0000000		3,3601826	664468	30'	30'	9,9999818		2,0379512	22920	30'					
2'	9,9999999	0,3	3,2624438	457575	50'	32'	9,9999812		2,0311114	22565	28'					
30'	9,9999999		3,1383338	347621	30'	30'	9,9999806		2,0243776	22210	30'					
3'	9,9999998		3,0591525	280287	50'	33'	9,9999800		2,0177466	21880	27'					
30'	9,9999998		2,9922057	234811	30'	30'	9,9999794		2,0112153	21554	30'					
4'	9,9999997		2,9342137	202034	50'	34'	9,9999788		2,0047808	21238	26'					
30'	9,9999996		2,8830511	177288	30'	30'	9,9999781		1,9984402	20931	25'					
5'	9,9999995		2,8373036	157943	50'	35'	9,9999775		1,9921908	20633	30'					
30'	9,9999994		2,7959108	142405	30'	30'	9,9999768		1,9860301	20345	24'					
6'	9,9999993		2,7581222	127650	50'	36'	9,9999762		1,9799555	20061	30'					
30'	9,9999992		2,7233600	122345	30'	30'	9,9999755	2,3	1,9739647	19787	23'					
7'	9,9999991		2,6911752	109954	50'	37'	9,9999748		1,9680554	19521	30'					
30'	9,9999990	0,6	2,6612119	102192	30'	30'	9,9999742		1,9622254	19261	30'					
8'	9,9999988		2,6331831	95453	50'	38'	9,9999735		1,9564726	19008	22'					
9'	9,9999987		2,6058941	89549	30'	30'	9,9999728		1,9507950	18762	30'					
30'	9,9999985		2,5802304	84332	50'	39'	9,9999721		1,9451006	18521	30'					
30'	9,9999983		2,5555492	79502	30'	30'	9,9999713		1,9396577	18288	30'					
10'	9,9999982		2,5362727	75332	50'	40'	9,9999706		1,9344143	18060	20'					
30'	9,9999980	0,7	2,5180532	71787	30'	30'	9,9999699	2,6	1,9287988	17838	30'					
11'	9,9999978		2,4948797	68394	50'	41'	9,9999692		1,9234694	17620	30'					
30'	9,9999976		2,4750744	65309	30'	30'	9,9999684		1,9182047	17408	30'					
12'	9,9999974		2,4579909	62490	50'	42'	9,9999676		1,9130050	17202	18'					
30'	9,9999971		2,4393620	59904	30'	30'	9,9999668		1,9078628	16999	30'					
13'	9,9999969		2,4223285	57524	50'	43'	9,9999660		1,9027828	16803	17'					
30'	9,9999967		2,4059379	55226	30'	30'	9,9999652		1,8977614	16609	30'					
14'	9,9999965		2,3901434	53299	50'	44'	9,9999644		1,8927975	16421	16'					
30'	9,9999961		2,3749033	51397	30'	30'	9,9999636		1,8878896	16237	30'					
15'	9,9999959	1,0	2,3601799	49635	50'	45'	9,9999628		1,8830366	16057	15'					
30'	9,9999956		2,3459392	47990	30'	30'	9,9999620		1,8782371	15881	30'					
16'	9,9999953		2,3321503	46449	50'	46'	9,9999611		1,8734901	15708	14'					
30'	9,9999950		2,3187865	45006	30'	30'	9,9999603		1,8687944	15540	30'					
17'	9,9999947	1,2	2,3058214	43649	50'	47'	9,9999594	3,0	1,8641490	15376	13'					
30'	9,9999944		2,2932321	42371	30'	30'	9,9999585		1,8595626	15213	30'					
18'	9,9999940		2,2809974	41167	50'	48'	9,9999577		1,8550044	15055	12'					
30'	9,9999937		2,2690980	40028	30'	30'	9,9999568		1,8505033	14900	30'					
19'	9,9999934		2,2575915	38952	50'	49'	9,9999560		1,8460684	14749	11'					
30'	9,9999930		2,2462346	37931	30'	30'	9,9999550		1,8416387	14600	30'					
20'	9,9999927	1,3	2,2352390	36962	50'	50'	9,9999541	3,3	1,8372733	14455	10'					
30'	9,9999923		2,2245149	36042	30'	30'	9,9999531		1,8329513	14312	30'					
21'	9,9999919		2,2140492	35167	50'	51'	9,9999522		1,8286718	14171	9'					
30'	9,9999915		2,2038298	34333	30'	30'	9,9999513		1,8244342	14035	30'					
22'	9,9999911		2,1938453	33538	50'	52'	9,9999503		1,8202374	13899	8'					
30'	9,9999907		2,1840852	32778	30'	30'	9,9999494		1,8160808	13767	30'					
23'	9,9999903		2,1745396	32053	50'	53'	9,9999484		1,8119636	13638	7'					
30'	9,9999899		2,1651993	31368	30'	30'	9,9999474		1,8078850	13510	30'					
24'	9,9999894		2,1560566	30694	50'	54'	9,9999464		1,8038444	13386	6'					
30'	9,9999890	1,6	2,1471004	30056	30'	30'	9,9999454		1,7998410	13263	30'					
25'	9,9999885		2,1383662	29444	50'	55'	9,9999444		1,7958741	13142	5'					
30'	9,9999881		2,1297257	28858	30'	30'	9,9999434		1,7919436	13025	30'					
26'	9,9999876		2,1212923	28294	50'	56'	9,9999424		1,7880474	12908	4'					
30'	9,9999871		2,1130194	27752	30'	30'	9,9999413		1,7841863	12794	30'					
27'	9,9999866		2,1049012	27230	50'	57'	9,9999403	3,6	1,7803592	12682	30'					
30'	9,9999861		2,0969319	26727	30'	30'	9,9999392		1,7765655	12572	2'					
28'	9,9999856		2,0891062	26242	50'	58'	9,9999382		1,7728047	12464	30'					
30'	9,9999851		2,0814191	25775	30'	30'	9,9999371		1,7690761	12358	30'					
29'	9,9999845		2,0738656	25325	50'	59'	9,9999360		1,7653792	12253	1'					
30'	9,9999840		2,0664412	24889	30'	30'	9,9999349		1,7617135	12105	0'					
30'	9,9999835		2,0591416	24469	30'	60'	9,9999338		1,7580785		0'					
	l. sin.	10'' diff.	l. tang.	diff.			l. sin.	10'' diff.	l. tang.	diff.						

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1 deg.

'	"	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	'
0	0	8, 2418553	12046	9, 9999338	8, 2419215	12049	1, 7580785	60
	10	8, 2430599	12012	9, 9999335	8, 2431254	12016	1, 7568736	50
	20	8, 2442611	11980	9, 9999331	8, 2443280	11983	1, 7556720	40
	30	8, 2454591	11946	9, 9999327	8, 2455263	11950	1, 7544737	30
	40	8, 2466537	11914	9, 9999324	8, 2467213	11918	1, 7532787	20
1	0	8, 2478451	11881	9, 9999320	8, 2479131	11884	1, 7520862	10
	50	8, 2490332	11848	9, 9999316	8, 2491015	11853	1, 7508985	0
	10	8, 2502180	11816	9, 9999313	8, 2502868	11820	1, 7497132	50
	20	8, 2513996	11785	9, 9999309	8, 2514688	11788	1, 7485312	40
	30	8, 2525781	11752	9, 9999305	8, 2526476	11756	1, 7473524	30
	40	8, 2537533	11721	9, 9999301	8, 2538232	11724	1, 7461768	20
2	0	8, 2549254	11689	9, 9999297	8, 2549956	11693	1, 7450044	10
	50	8, 2560943	11657	9, 9999294	8, 2561649	11661	1, 7438351	0
	10	8, 2572600	11627	9, 9999290	8, 2573310	11631	1, 7426690	50
	20	8, 2584227	11595	9, 9999286	8, 2584941	11599	1, 7415059	40
	30	8, 2595822	11565	9, 9999282	8, 2596540	11568	1, 7403450	30
	40	8, 2607387	11533	9, 9999278	8, 2608108	11538	1, 7391892	20
3	0	8, 2618920	11504	9, 9999275	8, 2619646	11507	1, 7380354	10
	50	8, 2630424	11472	9, 9999271	8, 2631153	11477	1, 7368847	0
	10	8, 2641896	11443	9, 9999267	8, 2642630	11446	1, 7357370	50
	20	8, 2653339	11412	9, 9999263	8, 2654076	11416	1, 7345924	40
	30	8, 2664751	11383	9, 9999259	8, 2665492	11387	1, 7334508	30
	40	8, 2676134	11353	9, 9999255	8, 2676879	11357	1, 7323121	20
4	0	8, 2687487	11323	9, 9999251	8, 2688236	11327	1, 7311764	10
	50	8, 2698810	11294	9, 9999247	8, 2699563	11297	1, 7300437	0
	10	8, 2710104	11264	9, 9999243	8, 2710860	11262	1, 7289140	50
	20	8, 2721368	11236	9, 9999239	8, 2722129	11239	1, 7277771	40
	30	8, 2732604	11206	9, 9999236	8, 2733368	11210	1, 7266532	30
	40	8, 2743810	11177	9, 9999232	8, 2744578	11182	1, 7255422	20
5	0	8, 2754987	11149	9, 9999228	8, 2755760	11152	1, 7244240	10
	50	8, 2766136	11120	9, 9999224	8, 2766912	11124	1, 7233038	0
	10	8, 2777256	11092	9, 9999220	8, 2778036	11096	1, 7221964	50
	20	8, 2788348	11063	9, 9999216	8, 2789132	11068	1, 7210868	40
	30	8, 2799411	11036	9, 9999212	8, 2800200	11039	1, 7199800	30
	40	8, 2810447	11007	9, 9999208	8, 2811239	11012	1, 7188761	20
6	0	8, 2821454	10980	9, 9999204	8, 2822255	10983	1, 7177749	10
	50	8, 2832434	10952	9, 9999200	8, 2833234	10956	1, 7166766	0
	10	8, 2843386	10924	9, 9999196	8, 2844190	10928	1, 7155810	50
	20	8, 2854310	10897	9, 9999191	8, 2855118	10901	1, 7144882	40
	30	8, 2865207	10869	9, 9999187	8, 2866019	10874	1, 7133981	30
	40	8, 2876076	10843	9, 9999183	8, 2876893	10847	1, 7123107	20
7	0	8, 2886919	10815	9, 9999179	8, 2887740	10819	1, 7112260	10
	50	8, 2897734	10789	9, 9999175	8, 2898559	10793	1, 7101441	0
	10	8, 2908523	10762	9, 9999171	8, 2909352	10766	1, 7090648	50
	20	8, 2919285	10735	9, 9999167	8, 2920118	10739	1, 7079882	40
	30	8, 2930020	10709	9, 9999163	8, 2930857	10713	1, 7069143	30
	40	8, 2940729	10682	9, 9999159	8, 2941570	10686	1, 7058430	20
8	0	8, 2951411	10656	9, 9999154	8, 2952256	10661	1, 7047744	10
	50	8, 2962067	10630	9, 9999150	8, 2962917	10634	1, 7037083	0
	10	8, 2972697	10604	9, 9999146	8, 2973551	10608	1, 7026449	50
	20	8, 2983301	10578	9, 9999142	8, 2984159	10583	1, 7015841	40
	30	8, 2993879	10553	9, 9999138	8, 2994742	10556	1, 7005258	30
	40	8, 3004433	10527	9, 9999134	8, 3005298	10532	1, 6994702	20
9	0	8, 3014959	10501	9, 9999129	8, 3015830	10505	1, 6984170	10
	50	8, 3025460	10477	9, 9999125	8, 3026335	10481	1, 6973665	0
	10	8, 3035937	10451	9, 9999121	8, 3036816	10455	1, 6963184	50
	20	8, 3046388	10425	9, 9999117	8, 3047271	10430	1, 6952729	40
	30	8, 3056813	10401	9, 9999112	8, 3057701	10405	1, 6942299	30
	40	8, 3067214	10376	9, 9999108	8, 3068106	10380	1, 6931894	20
10	0	8, 3077590	10351	9, 9999104	8, 3078486	10356	1, 6921514	10
	50	8, 3087941		9, 9999100	8, 3088842		1, 6911158	0
'	"	l. cosin.	diff.	l. sin.	l. cotan.	diff.	l. tang.	'

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1 deg.

°	'	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	°	'
10	0	8,3087941	10327	9,9999100	8,3088842	10331	1,6911158	0	50
	10	8,3092688	10322	9,9999095	8,3093173	10336	1,6900827	50	
	20	8,3108570	10278	9,9999091	8,3109479	10282	1,6890521	40	
	30	8,3118848	10253	9,9999087	8,3119761	10258	1,6880239	30	
	40	8,3129101	10230	9,9999082	8,3130019	10234	1,6869981	20	
	50	8,3139331	10205	9,9999078	8,3140253	10209	1,6859747	10	
11	0	8,3149536	10181	9,9999074	8,3150462	10186	1,6849538	0	49
	10	8,3159717	10158	9,9999069	8,3160648	10162	1,6839352	50	
	20	8,3169875	10133	9,9999065	8,3170810	10138	1,6829190	40	
	30	8,3180008	10111	9,9999061	8,3180948	10114	1,6819052	30	
	40	8,3190119	10086	9,9999056	8,3191062	10092	1,6808938	20	
	50	8,3200205	10064	9,9999052	8,3201154	10067	1,6798846	10	
12	0	8,3210269	10040	9,9999047	8,3211221	10045	1,6788779	0	48
	10	8,3220309	10017	9,9999043	8,3221266	10021	1,6778734	50	
	20	8,3230326	9993	9,9999039	8,3231287	9998	1,6768715	40	
	30	8,3240319	9971	9,9999034	8,3241285	9975	1,6758715	30	
	40	8,3250290	9948	9,9999030	8,3251260	9953	1,6748740	20	
	50	8,3260238	9925	9,9999025	8,3261213	9930	1,6738787	10	
13	0	8,3270163	9903	9,9999021	8,3271143	9907	1,6728857	0	47
	10	8,3280066	9880	9,9999016	8,3281050	9884	1,6718950	50	
	20	8,3289946	9858	9,9999012	8,3290934	9862	1,6709066	40	
	30	8,3299804	9835	9,9999007	8,3300796	9840	1,6699204	30	
	40	8,3309639	9813	9,9999003	8,3310636	9818	1,6689364	20	
	50	8,3319452	9791	9,9998998	8,3320454	9795	1,6679546	10	
14	0	8,3329243	9769	9,9998994	8,3330249	9774	1,6669761	0	46
	10	8,3339012	9747	9,9998989	8,3340023	9751	1,6659977	50	
	20	8,3348759	9725	9,9998985	8,3349774	9730	1,6650225	40	
	30	8,3358484	9703	9,9998980	8,3359504	9708	1,6640496	30	
	40	8,3368187	9682	9,9998976	8,3369212	9686	1,6630788	20	
	50	8,3377869	9660	9,9998971	8,3378898	9665	1,6621102	10	
15	0	8,3387529	9639	9,9998966	8,3388563	9643	1,6611437	0	45
	10	8,3397168	9617	9,9998962	8,3398206	9622	1,6601794	50	
	20	8,3406785	9597	9,9998957	8,3407828	9601	1,6592172	40	
	30	8,3416382	9575	9,9998953	8,3417429	9580	1,6582571	30	
	40	8,3425957	9553	9,9998948	8,3427009	9558	1,6572991	20	
	50	8,3435510	9533	9,9998943	8,3436567	9538	1,6563433	10	
16	0	8,3445043	9512	9,9998939	8,3446105	9516	1,6553895	0	44
	10	8,3454555	9492	9,9998934	8,3455621	9496	1,6544379	50	
	20	8,3464047	9470	9,9998929	8,3465117	9475	1,6534883	40	
	30	8,3473517	9450	9,9998925	8,3474592	9455	1,6525408	30	
	40	8,3482967	9429	9,9998920	8,3484047	9434	1,6515953	20	
	50	8,3492395	9407	9,9998915	8,3493481	9414	1,6506519	10	
17	0	8,3501805	9389	9,9998911	8,3502895	9393	1,6497105	0	43
	10	8,3511194	9368	9,9998906	8,3512288	9373	1,6487712	50	
	20	8,3520562	9348	9,9998901	8,3521661	9353	1,6478339	40	
	30	8,3529910	9328	9,9998896	8,3531014	9333	1,6468986	30	
	40	8,3539238	9308	9,9998892	8,3540347	9313	1,6459653	20	
	50	8,3548546	9289	9,9998887	8,3549660	9293	1,6450340	10	
18	0	8,3557835	9268	9,9998882	8,3558953	9273	1,6441047	0	42
	10	8,3567103	9248	9,9998877	8,3568226	9253	1,6431774	50	
	20	8,3576351	9229	9,9998872	8,3577479	9234	1,6422521	40	
	30	8,3585580	9210	9,9998868	8,3586713	9214	1,6413287	30	
	40	8,3594799	9189	9,9998863	8,3595927	9194	1,6404073	20	
	50	8,3603979	9171	9,9998858	8,3605121	9176	1,6394879	10	
19	0	8,3613150	9151	9,9998853	8,3614297	9156	1,6385703	0	41
	10	8,3622301	9132	9,9998848	8,3623453	9136	1,6376547	50	
	20	8,3631433	9112	9,9998843	8,3632589	9118	1,6367411	40	
	30	8,3640545	9094	9,9998839	8,3641707	9098	1,6358293	30	
	40	8,3649639	9074	9,9998834	8,3650805	9080	1,6349195	20	
	50	8,3658713	9056	9,9998829	8,3659885	9060	1,6340115	10	
20	0	8,3667769	9056	9,9998824	8,3668945	9060	1,6331055	0	40
°	'	l. cosin.	diff.	l. sin.	l. cotan.	diff.	l. tang.	°	'

88 deg.

1 deg.

'	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	'
20	0	8.3667769	9037	9.9998824	5	8.3668945	9042	1.6331055	0	40
	10	8.3676806	9018	9.9998819	5	8.3677987	9023	1.6322013	50	
	20	8.3685824	8999	9.9998814	5	8.3687010	9004	1.6312990	40	
	30	8.3694823	8981	9.9998809	5	8.3696014	8985	1.6303986	30	
	40	8.3703804	8962	9.9998804	5	8.3704999	8968	1.6295001	20	
21	0	8.3712766	8944	9.9998799	5	8.3713967	8948	1.6286033	10	39
	10	8.3721710	8925	9.9998794	5	8.3722915	8930	1.6277085	0	
	20	8.3730635	8907	9.9998789	5	8.3731845	8912	1.6268155	50	
	30	8.3739542	8888	9.9998784	5	8.3740757	8894	1.6259243	40	
	40	8.3748430	8871	9.9998779	5	8.3749651	8876	1.6250349	30	
	50	8.3757301	8852	9.9998774	5	8.3758527	8857	1.6241473	20	
22	0	8.3766153	8835	9.9998769	5	8.3767384	8839	1.6232616	10	38
	10	8.3774988	8816	9.9998764	5	8.3776223	8822	1.6223777	0	
	20	8.3783804	8799	9.9998759	5	8.3785045	8804	1.6214955	50	
	30	8.3792603	8781	9.9998754	5	8.3793849	8785	1.6206151	40	
	40	8.3801384	8763	9.9998749	5	8.3802634	8769	1.6197366	30	
	50	8.3810147	8745	9.9998744	5	8.3811403	8750	1.6188507	20	
23	0	8.3818892	8728	9.9998739	5	8.3820153	8733	1.6179847	10	37
	10	8.3827620	8710	9.9998734	5	8.3828886	8715	1.6171114	0	
	20	8.3836330	8693	9.9998729	5	8.3837601	8698	1.6162399	50	
	30	8.3845023	8676	9.9998724	5	8.3846299	8681	1.6153701	40	
	40	8.3853699	8658	9.9998719	5	8.3854980	8663	1.6145020	30	
	50	8.3862357	8641	9.9998714	5	8.3863643	8647	1.6136367	20	
24	0	8.3870998	8624	9.9998709	6	8.3872290	8628	1.6127710	10	36
	10	8.3879622	8607	9.9998703	5	8.3880918	8612	1.6119082	0	
	20	8.3888229	8589	9.9998698	5	8.3889530	8595	1.6110470	50	
	30	8.3896818	8573	9.9998693	5	8.3898125	8578	1.6101875	40	
	40	8.3905391	8556	9.9998688	5	8.3906703	8561	1.6093297	30	
	50	8.3913947	8539	9.9998683	5	8.3915264	8544	1.6084736	20	
25	0	8.3922486	8522	9.9998678	6	8.3923808	8528	1.6076192	10	35
	10	8.3931008	8505	9.9998672	5	8.3932336	8510	1.6067664	0	
	20	8.3939513	8489	9.9998667	5	8.3940846	8494	1.6059154	50	
	30	8.3948002	8473	9.9998662	5	8.3949340	8478	1.6050660	40	
	40	8.3956475	8455	9.9998657	6	8.3957818	8461	1.6042182	30	
	50	8.3964930	8440	9.9998651	5	8.3966279	8445	1.6033721	20	
26	0	8.3973370	8423	9.9998646	5	8.3974724	8428	1.6025276	10	34
	10	8.3981793	8406	9.9998641	5	8.3983152	8412	1.6016843	0	
	20	8.3990199	8391	9.9998636	6	8.3991564	8395	1.6008436	50	
	30	8.3998590	8374	9.9998630	5	8.3999959	8380	1.6000041	40	
	40	8.4006964	8358	9.9998625	5	8.4008339	8363	1.5991661	30	
	50	8.4015322	8342	9.9998620	6	8.4016702	8348	1.5983298	20	
27	0	8.4023664	8326	9.9998614	5	8.4025050	8331	1.5974950	10	33
	10	8.4031990	8310	9.9998609	5	8.4033381	8315	1.5966619	0	
	20	8.4040300	8294	9.9998604	6	8.4041696	8300	1.5958304	50	
	30	8.4048594	8279	9.9998598	5	8.4049996	8284	1.5950004	40	
	40	8.4056873	8262	9.9998593	5	8.4058280	8268	1.5941720	30	
	50	8.4065135	8247	9.9998588	6	8.4066548	8252	1.5933452	20	
28	0	8.4073382	8232	9.9998582	5	8.4074800	8237	1.5925200	10	32
	10	8.4081614	8215	9.9998577	5	8.4083037	8221	1.5916963	0	
	20	8.4089829	8200	9.9998572	6	8.4091258	8205	1.5908742	50	
	30	8.4098029	8185	9.9998566	5	8.4099463	8190	1.5900537	40	
	40	8.4106214	8169	9.9998561	6	8.4107653	8175	1.5892347	30	
	50	8.4114383	8154	9.9998555	5	8.4115828	8160	1.5884172	20	
29	0	8.4122537	8139	9.9998550	5	8.4123988	8144	1.5876012	10	31
	10	8.4130676	8124	9.9998544	5	8.4132132	8129	1.5867863	0	
	20	8.4138800	8108	9.9998539	6	8.4140261	8113	1.5859730	50	
	30	8.4146908	8093	9.9998533	5	8.4148374	8099	1.5851626	40	
	40	8.4155001	8078	9.9998528	5	8.4156473	8083	1.5843527	30	
	50	8.4163079	8063	9.9998523	6	8.4164556	8069	1.5835444	20	
30	0	8.4171142	8048	9.9998517	5	8.4172625	8054	1.5827375	10	30
	10	8.4179190		9.9998512	5	8.4180679		1.5819321	0	
'	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	'

88 deg.

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1 deg.

	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
30	o	8,4179190	8033	9,9998512	6	8,4180679	8038	1,5819321	o	30
	10	8,4187223	8019	9,9998506	6	8,4188717	8024	1,5811283	10	50
	20	8,4195242	8003	9,9998500	5	8,4196741	8009	1,5803259	20	40
	30	8,4203245	7989	9,9998495	5	8,4204750	7995	1,5795250	30	30
	40	8,4211234	7974	9,9998489	5	8,4212745	7980	1,5787255	40	20
31	50	8,4219208	7960	9,9998484	5	8,4220725	7965	1,5779275	50	10
	o	8,4227168	7945	9,9998478	5	8,4228690	7950	1,5771310	o	29
	10	8,4235113	7930	9,9998473	5	8,4236640	7936	1,5763350	10	50
	20	8,4243043	7916	9,9998467	5	8,4244576	7922	1,5755424	20	40
	30	8,4250959	7902	9,9998461	5	8,4252498	7907	1,5747502	30	30
32	40	8,4258861	7887	9,9998456	5	8,4260405	7893	1,5739595	40	20
	50	8,4266748	7873	9,9998450	5	8,4268298	7879	1,5731702	50	10
	o	8,4274621	7859	9,9998445	5	8,4276176	7865	1,5723824	o	28
	10	8,4282480	7844	9,9998439	5	8,4284041	7850	1,5715959	10	50
	20	8,4290324	7830	9,9998433	5	8,4291891	7836	1,5708109	20	40
33	30	8,4298154	7817	9,9998428	5	8,4299727	7822	1,5700273	30	30
	40	8,4305971	7802	9,9998422	5	8,4307549	7807	1,5692451	40	20
	50	8,4313773	7788	9,9998416	5	8,4315356	7794	1,5684644	50	10
	o	8,4321561	7774	9,9998411	5	8,4323150	7780	1,5676850	o	27
	10	8,4329335	7760	9,9998405	5	8,4330930	7766	1,5669070	10	50
34	20	8,4337095	7747	9,9998399	5	8,4338696	7752	1,5661304	20	40
	30	8,4344842	7732	9,9998393	5	8,4346448	7739	1,5653552	30	30
	40	8,4352574	7719	9,9998388	5	8,4354187	7724	1,5645813	40	20
	50	8,4360293	7706	9,9998382	5	8,4361911	7711	1,5638089	50	10
	o	8,4367999	7691	9,9998376	5	8,4369622	7698	1,5630378	o	26
35	10	8,4375690	7678	9,9998370	5	8,4377320	7683	1,5622680	10	50
	20	8,4383368	7664	9,9998365	5	8,4385003	7670	1,5614997	20	40
	30	8,4391032	7651	9,9998359	5	8,4392673	7657	1,5607327	30	30
	40	8,4398683	7638	9,9998353	5	8,4400330	7643	1,5599670	40	20
	50	8,4406321	7623	9,9998347	5	8,4407973	7630	1,5592027	50	10
36	o	8,4413944	7611	9,9998342	5	8,4415603	7616	1,5584397	o	25
	10	8,4421555	7597	9,9998336	5	8,4423219	7603	1,5576781	10	50
	20	8,4429152	7584	9,9998330	5	8,4430822	7590	1,5569178	20	40
	30	8,4436736	7571	9,9998324	5	8,4438412	7577	1,5561588	30	30
	40	8,4444307	7558	9,9998318	5	8,4445989	7563	1,5554011	40	20
37	50	8,4451865	7544	9,9998312	5	8,4453552	7551	1,5546448	50	10
	o	8,4459409	7531	9,9998306	5	8,4461103	7537	1,5538897	o	24
	10	8,4466940	7519	9,9998301	5	8,4468640	7524	1,5531360	10	50
	20	8,4474459	7505	9,9998295	5	8,4476164	7511	1,5523836	20	40
	30	8,4481964	7492	9,9998289	5	8,4483675	7498	1,5516325	30	30
38	40	8,4489456	7480	9,9998283	5	8,4491173	7486	1,5508827	40	20
	50	8,4496936	7466	9,9998277	5	8,4498659	7472	1,5501341	50	10
	o	8,4504402	7454	9,9998271	5	8,4506131	7460	1,5493859	o	23
	10	8,4511856	7441	9,9998265	5	8,4513591	7447	1,5486409	10	50
	20	8,4519297	7428	9,9998259	5	8,4521038	7434	1,5478962	20	40
39	30	8,4526725	7416	9,9998253	5	8,4528472	7421	1,5471528	30	30
	40	8,4534141	7402	9,9998247	5	8,4535893	7409	1,5464107	40	20
	50	8,4541543	7391	9,9998241	5	8,4543302	7397	1,5456698	50	10
	o	8,4548934	7377	9,9998235	5	8,4550699	7383	1,5449301	o	22
	10	8,4556311	7366	9,9998229	5	8,4558082	7371	1,5441918	10	50
40	20	8,4563677	7352	9,9998223	5	8,4565453	7359	1,5434547	20	40
	30	8,4571029	7340	9,9998217	5	8,4572812	7346	1,5427188	30	30
	40	8,4578369	7328	9,9998211	5	8,4580158	7334	1,5419842	40	20
	50	8,4585697	7316	9,9998205	5	8,4587492	7322	1,5412508	50	10
	o	8,4593013	7303	9,9998199	5	8,4594814	7309	1,5405186	o	21
41	10	8,4600316	7291	9,9998193	5	8,4602123	7297	1,5397877	10	50
	20	8,4607607	7279	9,9998187	5	8,4609420	7285	1,5390580	20	40
	30	8,4614886	7266	9,9998181	5	8,4616705	7273	1,5383295	30	30
	40	8,4622152	7254	9,9998175	5	8,4623978	7260	1,5376022	40	20
	50	8,4629406	7243	9,9998168	5	8,4631238	7248	1,5368762	50	10
40	o	8,4636649	7243	9,9998162	6	8,4638486		1,5361514	o	20
	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

88 deg.



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'	''	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	''	'
40	0	8.4636642	7230	9.9998162	6	8.4638486	7237	1.5361514	0	20
	10	8.4643879	7218	9.9998156	6	8.4645723	7224	1.5354277	50	
	20	8.4651097	7206	9.9998150	6	8.4652947	7212	1.5347053	40	
	30	8.4658303	7194	9.9998144	6	8.4660159	7201	1.5339841	30	
	40	8.4665497	7183	9.9998138	6	8.4667360	7188	1.5332640	20	
	50	8.4672680	7170	9.9998132	7	8.4674548	7177	1.5325452	10	
41	0	8.4679850	7159	9.9998125	6	8.4681725	7165	1.5318275	0	19
	10	8.4687009	7147	9.9998119	6	8.4688890	7153	1.5311110	50	
	20	8.4694156	7135	9.9998113	6	8.4696043	7141	1.5303957	40	
	30	8.4701291	7123	9.9998107	6	8.4703184	7129	1.5296816	30	
	40	8.4708414	7112	9.9998101	7	8.4710313	7118	1.5289687	20	
	50	8.4715526	7100	9.9998094	6	8.4717431	7107	1.5282569	10	
42	0	8.4722626	7088	9.9998088	6	8.4724538	7094	1.5275462	0	18
	10	8.4729714	7077	9.9998082	6	8.4731632	7083	1.5268368	50	
	20	8.4736791	7065	9.9998076	7	8.4738715	7072	1.5261285	40	
	30	8.4743856	7054	9.9998069	6	8.4745787	7060	1.5254213	30	
	40	8.4750910	7043	9.9998063	6	8.4752847	7049	1.5247153	20	
	50	8.4757953	7031	9.9998057	7	8.4759896	7037	1.5240104	10	
43	0	8.4764984	7019	9.9998050	6	8.4766933	7026	1.5233067	0	17
	10	8.4772003	7009	9.9998044	6	8.4773959	7015	1.5226041	50	
	20	8.4779012	6997	9.9998038	7	8.4780974	7003	1.5219026	40	
	30	8.4786009	6985	9.9998031	6	8.4787977	6992	1.5212023	30	
	40	8.4792994	6975	9.9998025	6	8.4794969	6981	1.5205031	20	
	50	8.4799962	6963	9.9998019	6	8.4801950	6970	1.5198050	10	
44	0	8.4806932	6952	9.9998012	7	8.4808920	6958	1.5191080	0	16
	10	8.4813884	6941	9.9998006	6	8.4815878	6948	1.5184122	50	
	20	8.4820825	6930	9.9998000	7	8.4822826	6936	1.5177174	40	
	30	8.4827755	6919	9.9997993	6	8.4829762	6925	1.5170238	30	
	40	8.4834674	6908	9.9997987	7	8.4836687	6915	1.5163313	20	
	50	8.4841582	6897	9.9997980	6	8.4843602	6903	1.5156398	10	
45	0	8.4848479	6886	9.9997974	6	8.4850505	6892	1.5149495	0	15
	10	8.4855365	6875	9.9997968	7	8.4857397	6882	1.5142603	50	
	20	8.4862240	6864	9.9997961	6	8.4864279	6870	1.5135721	40	
	30	8.4869104	6853	9.9997955	7	8.4871149	6860	1.5128851	30	
	40	8.4875957	6843	9.9997948	6	8.4878009	6849	1.5121991	20	
	50	8.4882800	6832	9.9997942	7	8.4884858	6838	1.5115142	10	
46	0	8.4889632	6821	9.9997935	6	8.4891696	6828	1.5108304	0	14
	10	8.4896453	6810	9.9997929	7	8.4898524	6817	1.5101476	50	
	20	8.4903263	6800	9.9997922	6	8.4905341	6806	1.5094659	40	
	30	8.4910063	6789	9.9997916	7	8.4912147	6795	1.5087853	30	
	40	8.4916852	6778	9.9997909	6	8.4918942	6785	1.5081058	20	
	50	8.4923630	6768	9.9997903	7	8.4925727	6775	1.5074273	10	
47	0	8.4930398	6757	9.9997896	8	8.4932502	6764	1.5067493	0	13
	10	8.4937155	6747	9.9997889	6	8.4939265	6753	1.5060734	50	
	20	8.4943902	6736	9.9997883	7	8.4946019	6743	1.5053981	40	
	30	8.4950638	6726	9.9997876	6	8.4952762	6732	1.5047238	30	
	40	8.4957364	6715	9.9997870	7	8.4959494	6722	1.5040506	20	
	50	8.4964079	6705	9.9997863	7	8.4966216	6712	1.5033784	10	
48	0	8.4970784	6695	9.9997856	6	8.4972923	6701	1.5027072	0	12
	10	8.4977479	6684	9.9997850	7	8.4979629	6691	1.5020371	50	
	20	8.4984163	6675	9.9997843	6	8.4986320	6681	1.5013680	40	
	30	8.4990838	6663	9.9997837	7	8.4993001	6670	1.5006999	30	
	40	8.4997501	6654	9.9997830	7	8.4999671	6661	1.5000329	20	
	50	8.5004155	6643	9.9997823	6	8.5006332	6650	1.4993668	10	
49	0	8.5010798	6634	9.9997817	7	8.5012482	6640	1.4987018	0	11
	10	8.5017432	6623	9.9997810	7	8.5019622	6630	1.4980378	50	
	20	8.5024055	6613	9.9997803	6	8.5026252	6619	1.4973748	40	
	30	8.5030668	6603	9.9997797	7	8.5032871	6610	1.4967129	30	
	40	8.5037271	6593	9.9997790	7	8.5039481	6600	1.4960519	20	
	50	8.5043864	6583	9.9997783	7	8.5046081	6590	1.4953919	10	
50	0	8.5050447		9.9997776	7	8.5052671		1.4947329	0	10
'	''	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	''	'

88 deg.

1 deg.

	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
50	0	8,5050447	6573	9,9997776	6	8,5052671	6579	1,4947329	0	10
	10	8,5057020	6563	9,9997770	7	8,5052650	6570	1,4940750	50	
	20	8,5063583	6553	9,9997763	7	8,5065820	6560	1,4934180	40	
	30	8,5070136	6543	9,9997756	7	8,5072380	6550	1,4927620	30	
	40	8,5076679	6534	9,9997749	6	8,5078930	6540	1,4921070	20	
	50	8,5083213	6523	9,9997743	7	8,5085470	6531	1,4914530	10	
51	0	8,5089736	6514	9,9997736	7	8,5092001	6520	1,4907999	0	9
	10	8,5096260	6504	9,9997729	7	8,5098521	6511	1,4901472	50	
	20	8,5102754	6494	9,9997722	7	8,5105032	6501	1,4894968	40	
	30	8,5109248	6485	9,9997715	7	8,5111533	6492	1,4888467	30	
	40	8,5115733	6475	9,9997708	6	8,5118225	6481	1,4881975	20	
	50	8,5122208	6465	9,9997702	7	8,5124506	6472	1,4875494	10	
52	0	8,5128673	6456	9,9997695	7	8,5130778	6463	1,4869022	0	8
	10	8,5135129	6446	9,9997688	7	8,5137441	6453	1,4862559	50	
	20	8,5141575	6436	9,9997681	7	8,5143894	6443	1,4856106	40	
	30	8,5148011	6427	9,9997674	7	8,5150337	6434	1,4849663	30	
	40	8,5154438	6417	9,9997667	7	8,5156771	6424	1,4843222	20	
	50	8,5160866	6408	9,9997660	7	8,5163195	6415	1,4836805	10	
53	0	8,5167264	6398	9,9997653	7	8,5169610	6406	1,4830390	0	7
	10	8,5173662	6389	9,9997646	6	8,5176016	6396	1,4823984	50	
	20	8,5180051	6380	9,9997640	7	8,5182412	6386	1,4817588	40	
	30	8,5186431	6370	9,9997633	7	8,5188793	6377	1,4811202	30	
	40	8,5192801	6361	9,9997626	7	8,5195175	6368	1,4804825	20	
	50	8,5199162	6352	9,9997619	7	8,5201543	6359	1,4798457	10	
54	0	8,5205514	6342	9,9997612	7	8,5207902	6349	1,4792098	0	6
	10	8,5211856	6333	9,9997605	7	8,5214251	6340	1,4785749	50	
	20	8,5218189	6324	9,9997598	7	8,5220591	6331	1,4779409	40	
	30	8,5224513	6315	9,9997591	7	8,5226922	6322	1,4773078	30	
	40	8,5230838	6305	9,9997584	7	8,5233244	6313	1,4766756	20	
	50	8,5237133	6297	9,9997577	7	8,5239557	6303	1,4760443	10	
55	0	8,5243430	6287	9,9997570	7	8,5245860	6294	1,4754140	0	5
	10	8,5249717	6278	9,9997563	8	8,5252154	6285	1,4747846	50	
	20	8,5255995	6269	9,9997555	7	8,5258439	6277	1,4741561	40	
	30	8,5262264	6260	9,9997548	7	8,5264716	6267	1,4735284	30	
	40	8,5268524	6251	9,9997541	7	8,5270983	6258	1,4729017	20	
	50	8,5274775	6242	9,9997534	7	8,5277241	6249	1,4722759	10	
56	0	8,5281017	6233	9,9997527	7	8,5283490	6240	1,4716510	0	4
	10	8,5287250	6224	9,9997520	7	8,5289730	6231	1,4710270	50	
	20	8,5293474	6215	9,9997513	7	8,5295961	6222	1,4704039	40	
	30	8,5299689	6206	9,9997506	7	8,5302183	6214	1,4697817	30	
	40	8,5305895	6198	9,9997499	8	8,5308397	6204	1,4691603	20	
	50	8,5312093	6188	9,9997491	7	8,5314601	6196	1,4685399	10	
57	0	8,5318281	6180	9,9997484	7	8,5320797	6187	1,4679203	0	3
	10	8,5324461	6171	9,9997477	7	8,5326984	6178	1,4673016	50	
	20	8,5330632	6162	9,9997470	7	8,5333162	6169	1,4666838	40	
	30	8,5336794	6154	9,9997463	7	8,5339331	6161	1,4660669	30	
	40	8,5342948	6144	9,9997456	8	8,5345492	6152	1,4654508	20	
	50	8,5349092	6136	9,9997448	8	8,5351644	6143	1,4648356	10	
58	0	8,5355228	6128	9,9997441	7	8,5357787	6135	1,4642213	0	2
	10	8,5361356	6118	9,9997434	7	8,5363922	6126	1,4636067	50	
	20	8,5367474	6111	9,9997427	8	8,5370045	6117	1,4629922	40	
	30	8,5373585	6101	9,9997419	7	8,5376165	6109	1,4623835	30	
	40	8,5379686	6093	9,9997412	7	8,5382274	6100	1,4617726	20	
	50	8,5385779	6084	9,9997405	7	8,5388374	6092	1,4611626	10	
59	0	8,5391863	6076	9,9997398	8	8,5394466	6083	1,4605534	0	1
	10	8,5397939	6068	9,9997390	7	8,5400549	6075	1,4599451	50	
	20	8,5404007	6059	9,9997383	7	8,5406624	6066	1,4593376	40	
	30	8,5410066	6050	9,9997376	8	8,5412690	6058	1,4587310	30	
	40	8,5416116	6042	9,9997368	7	8,5418748	6049	1,4581252	20	
	50	8,5422158	6034	9,9997361	7	8,5424797	6041	1,4575203	10	
60	0	8,5428192	6024	9,9997354	7	8,5430833	6041	1,4569162	0	0
	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

88 deg.

2 deg.

/	//	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	//	/
0	0	8,5428192	6025	9,9997354	8	8,5430838	6033	1,4569162	0	60
	10	8,5434217	6017	9,9997346	7	8,5436871	6024	1,4563129	50	
	20	8,5440234	6008	9,9997339	8	8,5442895	6016	1,4557105	40	
	30	8,5446242	6001	9,9997331	7	8,5448911	6007	1,4551089	30	
	40	8,5452243	5991	9,9997324	8	8,5454918	6000	1,4545082	20	
	50	8,5458234	5984	9,9997317	7	8,5460918	5991	1,4539082	10	
1	0	8,5464218	5976	9,9997309	7	8,5466909	5983	1,4533091	0	59
	10	8,5470194	5967	9,9997302	8	8,5472892	5974	1,4527108	50	
	20	8,5476161	5959	9,9997294	7	8,5478866	5967	1,4521134	40	
	30	8,5482120	5951	9,9997287	7	8,5484833	5958	1,4515167	30	
	40	8,5488071	5942	9,9997280	8	8,5490791	5950	1,4509209	20	
	50	8,5494013	5935	9,9997272	7	8,5496741	5942	1,4503259	10	
2	0	8,5499948	5926	9,9997265	8	8,5502683	5934	1,4497317	0	58
	10	8,5505874	5919	9,9997257	7	8,5508617	5926	1,4491383	50	
	20	8,5511793	5910	9,9997250	8	8,5514543	5918	1,4485457	40	
	30	8,5517703	5902	9,9997242	7	8,5520461	5910	1,4479539	30	
	40	8,5523605	5894	9,9997235	8	8,5526371	5901	1,4473629	20	
	50	8,5529479	5887	9,9997227	7	8,5532272	5894	1,4467728	10	
3	0	8,5535386	5878	9,9997220	8	8,5538166	5886	1,4461834	0	57
	10	8,5541264	5870	9,9997212	7	8,5544052	5878	1,4455948	50	
	20	8,5547134	5863	9,9997204	8	8,5549930	5870	1,4450070	40	
	30	8,5553097	5854	9,9997197	7	8,5555800	5862	1,4444200	30	
	40	8,5558951	5847	9,9997189	8	8,5561662	5854	1,4438338	20	
	50	8,5564868	5838	9,9997182	7	8,5567516	5846	1,4432484	10	
4	0	8,5570736	5831	9,9997174	8	8,5573362	5839	1,4426638	0	56
	10	8,5576637	5823	9,9997167	7	8,5579201	5830	1,4420799	50	
	20	8,5582510	5815	9,9997159	8	8,5585031	5823	1,4414969	40	
	30	8,5588305	5808	9,9997151	7	8,5590854	5815	1,4409146	30	
	40	8,5594131	5799	9,9997144	8	8,5596669	5807	1,4403331	20	
	50	8,5600065	5792	9,9997136	7	8,5602476	5800	1,4397524	10	
5	0	8,5605940	5784	9,9997128	8	8,5608287	5792	1,4391724	0	55
	10	8,5611888	5777	9,9997121	7	8,5614063	5784	1,4385932	50	
	20	8,5617865	5769	9,9997113	8	8,5619852	5776	1,4380143	40	
	30	8,5623734	5761	9,9997105	7	8,5625628	5769	1,4374372	30	
	40	8,5629645	5753	9,9997098	8	8,5631397	5761	1,4368603	20	
	50	8,5634248	5746	9,9997090	7	8,5637153	5754	1,4362842	10	
6	0	8,5639994	5738	9,9997082	8	8,5642912	5746	1,4357038	0	54
	10	8,5645732	5731	9,9997075	7	8,5648658	5738	1,4351342	50	
	20	8,5651463	5723	9,9997067	8	8,5654396	5731	1,4345604	40	
	30	8,5657186	5716	9,9997059	7	8,5660127	5724	1,4339873	30	
	40	8,5662902	5708	9,9997051	8	8,5665851	5716	1,4334149	20	
	50	8,5668610	5700	9,9997044	7	8,5671566	5709	1,4328434	10	
7	0	8,5674310	5694	9,9997036	8	8,5677275	5701	1,4322725	0	53
	10	8,5680004	5685	9,9997028	7	8,5682976	5693	1,4317024	50	
	20	8,5685689	5678	9,9997020	8	8,5688663	5686	1,4311331	40	
	30	8,5691367	5671	9,9997012	7	8,5694355	5679	1,4305645	30	
	40	8,5697038	5663	9,9997005	8	8,5700034	5671	1,4299966	20	
	50	8,5702701	5656	9,9996997	7	8,5705705	5663	1,4294295	10	
8	0	8,5708357	5649	9,9996989	8	8,5711368	5657	1,4288632	0	52
	10	8,5714006	5641	9,9996981	7	8,5717025	5649	1,4282976	50	
	20	8,5719647	5634	9,9996973	8	8,5722674	5642	1,4277326	40	
	30	8,5725281	5627	9,9996965	7	8,5728316	5634	1,4271684	30	
	40	8,5730908	5619	9,9996957	8	8,5733950	5627	1,4266050	20	
	50	8,5736527	5612	9,9996950	7	8,5739577	5620	1,4260423	10	
9	0	8,5742139	5605	9,9996942	8	8,5745197	5613	1,4254803	0	51
	10	8,5747744	5597	9,9996934	7	8,5750810	5606	1,4249190	50	
	20	8,5753341	5591	9,9996926	8	8,5756416	5598	1,4243584	40	
	30	8,5758932	5583	9,9996918	7	8,5762014	5591	1,4237986	30	
	40	8,5764515	5576	9,9996910	8	8,5767605	5584	1,4232395	20	
	50	8,5770091	5569	9,9996902	7	8,5773189	5577	1,4226811	10	
10	0	8,5775660	5569	9,9996894	8	8,5778766	5577	1,4221234	0	50
/	//	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	//	/

87 deg.

2 deg.

'	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
10	0	8, 5775660	5561	9, 9996894	8	8, 5778766	5569	1, 4221234	0	50
	10	8, 5781221	5555	9, 9996886	8	8, 5784335	5563	1, 4215665	50	
	20	8, 5786776	5547	9, 9996878	8	8, 5789898	5555	1, 4210102	40	
	30	8, 5792323	5541	9, 9996870	8	8, 5795453	5548	1, 4204547	30	
	40	8, 5797864	5533	9, 9996862	8	8, 5801001	5542	1, 4198999	20	
	50	8, 5803397	5526	9, 9996854	8	8, 5806543	5534	1, 4193457	10	
11	0	8, 5808923	5519	9, 9996846	8	8, 5812077	5527	1, 4187923	0	49
	10	8, 5814444	5512	9, 9996838	8	8, 5817604	5520	1, 4182396	50	
	20	8, 5819954	5506	9, 9996830	8	8, 5823124	5514	1, 4176876	40	
	30	8, 5825460	5498	9, 9996822	8	8, 5828638	5506	1, 4171362	30	
	40	8, 5830958	5491	9, 9996814	8	8, 5834144	5499	1, 4165856	20	
	50	8, 5836449	5484	9, 9996806	8	8, 5839643	5493	1, 4160357	10	
12	0	8, 5841933	5478	9, 9996798	8	8, 5845136	5485	1, 4154864	0	48
	10	8, 5847411	5470	9, 9996790	8	8, 5850621	5479	1, 4149379	50	
	20	8, 5852881	5464	9, 9996782	8	8, 5856100	5471	1, 4143900	40	
	30	8, 5858345	5456	9, 9996773	8	8, 5861571	5465	1, 4138429	30	
	40	8, 5863801	5450	9, 9996765	8	8, 5867036	5458	1, 4132964	20	
	50	8, 5869251	5443	9, 9996757	8	8, 5872494	5451	1, 4127506	10	
13	0	8, 5874694	5436	9, 9996749	8	8, 5877945	5444	1, 4122055	0	47
	10	8, 5880130	5430	9, 9996741	8	8, 5883389	5438	1, 4116611	50	
	20	8, 5885560	5422	9, 9996733	8	8, 5888827	5431	1, 4111173	40	
	30	8, 5890988	5416	9, 9996724	8	8, 5894258	5424	1, 4105742	30	
	40	8, 5896398	5409	9, 9996716	8	8, 5899682	5417	1, 4100318	20	
	50	8, 5901807	5402	9, 9996708	8	8, 5905099	5410	1, 4094901	10	
14	0	8, 5907209	5396	9, 9996700	8	8, 5910509	5404	1, 4089491	0	46
	10	8, 5912605	5389	9, 9996692	8	8, 5915913	5397	1, 4084087	50	
	20	8, 5917994	5382	9, 9996683	8	8, 5921310	5391	1, 4078690	40	
	30	8, 5923376	5375	9, 9996675	8	8, 5926701	5384	1, 4073294	30	
	40	8, 5928751	5368	9, 9996667	8	8, 5932085	5377	1, 4067915	20	
	50	8, 5934120	5363	9, 9996659	8	8, 5937462	5370	1, 4062538	10	
15	0	8, 5939483	5355	9, 9996650	8	8, 5942838	5364	1, 4057168	0	45
	10	8, 5944838	5349	9, 9996642	8	8, 5948216	5357	1, 4051804	50	
	20	8, 5950187	5343	9, 9996634	8	8, 5953593	5351	1, 4046447	40	
	30	8, 5955530	5335	9, 9996626	8	8, 5958904	5344	1, 4041096	30	
	40	8, 5960865	5330	9, 9996617	8	8, 5964248	5338	1, 4035752	20	
	50	8, 5966195	5322	9, 9996609	8	8, 5969586	5331	1, 4030414	10	
16	0	8, 5971517	5317	9, 9996601	8	8, 5974917	5324	1, 4025083	0	44
	10	8, 5976834	5309	9, 9996592	8	8, 5980241	5318	1, 4019759	50	
	20	8, 5982143	5303	9, 9996584	8	8, 5985559	5312	1, 4014441	40	
	30	8, 5987446	5297	9, 9996576	8	8, 5990871	5305	1, 4009129	30	
	40	8, 5992743	5290	9, 9996567	8	8, 5996176	5299	1, 4003824	20	
	50	8, 5998033	5284	9, 9996559	8	8, 6001475	5292	1, 3998525	10	
17	0	8, 6003317	5278	9, 9996550	8	8, 6006767	5286	1, 3993233	0	43
	10	8, 6008595	5271	9, 9996542	8	8, 6012053	5279	1, 3987947	50	
	20	8, 6013866	5264	9, 9996534	8	8, 6017332	5273	1, 3982668	40	
	30	8, 6019130	5258	9, 9996525	8	8, 6022605	5267	1, 3977395	30	
	40	8, 6024388	5252	9, 9996517	8	8, 6027872	5260	1, 3972128	20	
	50	8, 6029640	5246	9, 9996508	8	8, 6033132	5254	1, 3966868	10	
18	0	8, 6034886	5239	9, 9996500	8	8, 6038386	5247	1, 3961614	0	42
	10	8, 6040125	5232	9, 9996491	8	8, 6043633	5242	1, 3956367	50	
	20	8, 6045357	5227	9, 9996483	8	8, 6048875	5235	1, 3951125	40	
	30	8, 6050584	5220	9, 9996474	8	8, 6054110	5228	1, 3945890	30	
	40	8, 6055804	5214	9, 9996466	8	8, 6059338	5223	1, 3940662	20	
	50	8, 6061018	5208	9, 9996457	8	8, 6064561	5216	1, 3935439	10	
19	0	8, 6066226	5201	9, 9996449	8	8, 6069777	5210	1, 3930223	0	41
	10	8, 6071427	5195	9, 9996440	8	8, 6074987	5203	1, 3925013	50	
	20	8, 6076622	5189	9, 9996432	8	8, 6080190	5198	1, 3919810	40	
	30	8, 6081811	5183	9, 9996423	8	8, 6085388	5191	1, 3914612	30	
	40	8, 6086994	5177	9, 9996415	8	8, 6090579	5185	1, 3909421	20	
	50	8, 6092171	5170	9, 9996406	8	8, 6095764	5179	1, 3904236	10	
20	0	8, 6097341	5170	9, 9996398	8	8, 6100943	5179	1, 3899057	0	40
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

87 deg.



2 deg.

'	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
20	0	8.6097341	5164	9.9996398	9	8.6100943	5173	1.3899057	0	40
	10	8.6102505	5158	9.9996389	9	8.6106116	5167	1.3893884	50	
	20	8.6107663	5152	9.9996380	8	8.6111283	5160	1.3888717	40	
	30	8.6112815	5146	9.9996372	8	8.6116443	5155	1.3883557	30	
	40	8.6117961	5140	9.9996363	8	8.6121598	5148	1.3878402	20	
	50	8.6123101	5134	9.9996355	8	8.6126746	5143	1.3873254	10	
21	0	8.6128235	5127	9.9996346	9	8.6131889	5136	1.3868111	0	39
	10	8.6133362	5122	9.9996337	8	8.6137025	5130	1.3862975	50	
	20	8.6138484	5115	9.9996329	8	8.6142155	5124	1.3857845	40	
	30	8.6143599	5110	9.9996320	9	8.6147279	5118	1.3852721	30	
	40	8.6148709	5103	9.9996311	8	8.6152397	5112	1.3847603	20	
	50	8.6153812	5098	9.9996303	9	8.6157509	5107	1.3842491	10	
22	0	8.6158910	5091	9.9996294	8	8.6162616	5100	1.3837384	0	38
	10	8.6164001	5086	9.9996285	8	8.6167716	5094	1.3832284	50	
	20	8.6169087	5079	9.9996277	9	8.6172810	5088	1.3827190	40	
	30	8.6174166	5074	9.9996268	8	8.6177898	5083	1.3822102	30	
	40	8.6179240	5067	9.9996259	9	8.6182981	5076	1.3817019	20	
	50	8.6184307	5062	9.9996250	8	8.6188057	5070	1.3811943	10	
23	0	8.6189369	5056	9.9996242	8	8.6193127	5065	1.3806873	0	37
	10	8.6194425	5050	9.9996233	9	8.6198192	5059	1.3801808	50	
	20	8.6199475	5044	9.9996224	9	8.6203251	5053	1.3796749	40	
	30	8.6204519	5038	9.9996215	8	8.6208304	5047	1.3791696	30	
	40	8.6209557	5032	9.9996206	8	8.6213351	5041	1.3786649	20	
	50	8.6214589	5027	9.9996198	9	8.6218392	5035	1.3781608	10	
24	0	8.6219616	5021	9.9996189	9	8.6223427	5030	1.3776573	0	36
	10	8.6224637	5015	9.9996180	9	8.6228457	5023	1.3771543	50	
	20	8.6229652	5009	9.9996171	9	8.6233480	5018	1.3766520	40	
	30	8.6234661	5003	9.9996162	9	8.6238498	5013	1.3761502	30	
	40	8.6239664	4998	9.9996153	8	8.6243511	5006	1.3756489	20	
	50	8.6244662	4991	9.9996145	8	8.6248517	5001	1.3751483	10	
25	0	8.6249653	4986	9.9996136	9	8.6253518	4995	1.3746482	0	35
	10	8.6254639	4981	9.9996127	9	8.6258513	4989	1.3741487	50	
	20	8.6259620	4974	9.9996118	9	8.6263502	4983	1.3736498	40	
	30	8.6264594	4969	9.9996109	9	8.6268485	4978	1.3731515	30	
	40	8.6269563	4964	9.9996100	9	8.6273463	4972	1.3726537	20	
	50	8.6274527	4957	9.9996091	9	8.6278435	4967	1.3721555	10	
26	0	8.6279484	4952	9.9996082	9	8.6283402	4961	1.3716578	0	34
	10	8.6284436	4946	9.9996073	9	8.6288363	4955	1.3711637	50	
	20	8.6289382	4941	9.9996064	9	8.6293318	4950	1.3706682	40	
	30	8.6294323	4935	9.9996055	9	8.6298268	4943	1.3701732	30	
	40	8.6299258	4929	9.9996046	9	8.6303211	4939	1.3696789	20	
	50	8.6304187	4924	9.9996037	9	8.6308150	4933	1.3691850	10	
27	0	8.6309111	4918	9.9996028	9	8.6313083	4927	1.3686917	0	33
	10	8.6314029	4913	9.9996019	9	8.6318010	4921	1.3681990	50	
	20	8.6318942	4907	9.9996010	9	8.6322931	4917	1.3677059	40	
	30	8.6323849	4901	9.9996001	9	8.6327848	4910	1.3672152	30	
	40	8.6328750	4896	9.9995992	9	8.6332758	4905	1.3667242	20	
	50	8.6333645	4891	9.9995983	9	8.6337663	4900	1.3662337	10	
28	0	8.6338537	4885	9.9995974	9	8.6342563	4894	1.3657437	0	32
	10	8.6343422	4879	9.9995965	9	8.6347457	4888	1.3652543	50	
	20	8.6348301	4874	9.9995956	9	8.6352345	4883	1.3647653	40	
	30	8.6353175	4868	9.9995947	9	8.6357228	4878	1.3642772	30	
	40	8.6358043	4863	9.9995938	9	8.6362106	4872	1.3637894	20	
	50	8.6362906	4858	9.9995929	10	8.6366978	4867	1.3633022	10	
29	0	8.6367764	4852	9.9995919	9	8.6371845	4861	1.3628155	0	31
	10	8.6372616	4847	9.9995910	9	8.6376706	4856	1.3623294	50	
	20	8.6377463	4841	9.9995901	9	8.6381562	4850	1.3618438	40	
	30	8.6382304	4836	9.9995892	9	8.6386412	4845	1.3613583	30	
	40	8.6387140	4831	9.9995883	9	8.6391257	4840	1.3608743	20	
	50	8.6391971	4825	9.9995874	9	8.6396097	4834	1.3603903	10	
30	0	8.6396796		9.9995865	9	8.6400931		1.3599069	0	30
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

87 deg.

2 deg.

'	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	'	"
30	0	8, 6396796	4819	9, 9995865	10	8, 6400931	4829	1, 3599069	0	30
	10	8, 6401615	4815	9, 9995855	9	8, 6405760	4824	1, 3594240	50	
	20	8, 6406430	4809	9, 9995846	9	8, 6410584	4818	1, 3589416	40	
	30	8, 6411239	4804	9, 9995837	9	8, 6415402	4813	1, 3584598	30	
	40	8, 6416043	4798	9, 9995828	9	8, 6420215	4808	1, 3579785	20	
	50	8, 6420841	4793	9, 9995818	10	8, 6425023	4802	1, 3574977	10	
31	0	8, 6425634	4788	9, 9995809	9	8, 6429825	4797	1, 3570175	0	29
	10	8, 6430422	4782	9, 9995800	9	8, 6434622	4792	1, 3565378	50	
	20	8, 6435204	4778	9, 9995791	9	8, 6439414	4786	1, 3560586	40	
	30	8, 6439982	4772	9, 9995781	10	8, 6444200	4782	1, 3555800	30	
	40	8, 6444754	4766	9, 9995772	9	8, 6448982	4776	1, 3551018	20	
	50	8, 6449520	4762	9, 9995763	10	8, 6453753	4770	1, 3546242	10	
32	0	8, 6454282	4756	9, 9995753	9	8, 6458528	4766	1, 3541472	0	28
	10	8, 6459038	4751	9, 9995744	9	8, 6463294	4760	1, 3536706	50	
	20	8, 6463789	4746	9, 9995735	10	8, 6468054	4756	1, 3531946	40	
	30	8, 6468535	4741	9, 9995725	9	8, 6472810	4750	1, 3527190	30	
	40	8, 6473276	4735	9, 9995716	9	8, 6477560	4745	1, 3522440	20	
	50	8, 6478011	4731	9, 9995707	10	8, 6482305	4740	1, 3517695	10	
33	0	8, 6482742	4725	9, 9995697	9	8, 6487044	4735	1, 3512956	0	27
	10	8, 6487467	4720	9, 9995688	9	8, 6491779	4729	1, 3508221	50	
	20	8, 6492187	4715	9, 9995679	10	8, 6496508	4725	1, 3503492	40	
	30	8, 6496902	4710	9, 9995669	9	8, 6501233	4719	1, 3498767	30	
	40	8, 6501612	4704	9, 9995660	9	8, 6505952	4714	1, 3494048	20	
	50	8, 6506316	4700	9, 9995650	10	8, 6510666	4709	1, 3489334	10	
34	0	8, 6511016	4694	9, 9995641	9	8, 6515375	4704	1, 3484625	0	26
	10	8, 6515710	4690	9, 9995631	10	8, 6520079	4699	1, 3479921	50	
	20	8, 6520400	4684	9, 9995622	9	8, 6524778	4693	1, 3475222	40	
	30	8, 6525084	4679	9, 9995613	10	8, 6529471	4689	1, 3470529	30	
	40	8, 6529763	4674	9, 9995603	9	8, 6534160	4684	1, 3465840	20	
	50	8, 6534437	4670	9, 9995594	10	8, 6538844	4678	1, 3461156	10	
35	0	8, 6539107	4664	9, 9995584	9	8, 6543522	4674	1, 3456478	0	25
	10	8, 6543771	4659	9, 9995575	9	8, 6548196	4669	1, 3451804	50	
	20	8, 6548430	4654	9, 9995565	9	8, 6552865	4665	1, 3447135	40	
	30	8, 6553084	4649	9, 9995556	10	8, 6557528	4660	1, 3442472	30	
	40	8, 6557733	4644	9, 9995546	9	8, 6562187	4655	1, 3437813	20	
	50	8, 6562377	4640	9, 9995536	10	8, 6566841	4650	1, 3433159	10	
36	0	8, 6567017	4634	9, 9995527	9	8, 6571490	4643	1, 3428510	0	24
	10	8, 6571651	4629	9, 9995517	9	8, 6576133	4639	1, 3423867	50	
	20	8, 6576280	4624	9, 9995508	10	8, 6580772	4634	1, 3419228	40	
	30	8, 6580904	4620	9, 9995498	9	8, 6585406	4629	1, 3414594	30	
	40	8, 6585524	4614	9, 9995489	9	8, 6590035	4624	1, 3409965	20	
	50	8, 6590138	4610	9, 9995479	10	8, 6594659	4620	1, 3405341	10	
37	0	8, 6594748	4605	9, 9995469	9	8, 6599279	4614	1, 3400721	0	23
	10	8, 6599353	4599	9, 9995460	9	8, 6603893	4609	1, 3396107	50	
	20	8, 6603952	4595	9, 9995450	10	8, 6608502	4605	1, 3391498	40	
	30	8, 6608547	4590	9, 9995440	9	8, 6613107	4600	1, 3386893	30	
	40	8, 6613137	4586	9, 9995431	10	8, 6617707	4594	1, 3382293	20	
	50	8, 6617723	4580	9, 9995421	9	8, 6622301	4590	1, 3377699	10	
38	0	8, 6622303	4575	9, 9995411	10	8, 6626891	4586	1, 3373109	0	22
	10	8, 6626878	4571	9, 9995402	9	8, 6631477	4580	1, 3368523	50	
	20	8, 6631449	4565	9, 9995392	10	8, 6636057	4576	1, 3363943	40	
	30	8, 6636015	4561	9, 9995382	9	8, 6640633	4570	1, 3359367	30	
	40	8, 6640576	4556	9, 9995373	9	8, 6645203	4565	1, 3354797	20	
	50	8, 6645132	4552	9, 9995363	10	8, 6649770	4561	1, 3350230	10	
39	0	8, 6649684	4547	9, 9995353	9	8, 6654331	4556	1, 3345669	0	21
	10	8, 6654231	4542	9, 9995343	10	8, 6658887	4552	1, 3341113	50	
	20	8, 6658773	4537	9, 9995334	9	8, 6663433	4547	1, 3336561	40	
	30	8, 6663310	4532	9, 9995324	10	8, 6667986	4542	1, 3332014	30	
	40	8, 6667842	4528	9, 9995314	9	8, 6672528	4538	1, 3327472	20	
	50	8, 6672370	4523	9, 9995304	10	8, 6677066	4532	1, 3322934	10	
40	0	8, 6676893	4523	9, 9995295	9	8, 6681598	4527	1, 3318402	0	20
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	"

87 deg.

2 deg.

'	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
40	0	8,6676893	4518	9,9995235	10	8,6681598	4529	1,3318402	0	20
	10	8,6681411	4514	9,9995285	10	8,6686127	4523	1,3313873	50	
	20	8,6685925	4509	9,9995275	10	8,6690650	4519	1,3309350	40	
	30	8,6690434	4504	9,9995255	10	8,6695169	4514	1,3304831	30	
	40	8,6694938	4499	9,9995255	10	8,6699683	4509	1,3300317	20	
	50	8,6699437	4495	9,9995245	10	8,6704192	4505	1,3295808	10	
41	0	8,6703932	4490	9,9995236	9	8,6708697	4500	1,3291303	0	19
	10	8,6708422	4486	9,9995226	10	8,6713197	4495	1,3286803	50	
	20	8,6712908	4481	9,9995216	10	8,6717692	4491	1,3282308	40	
	30	8,6717389	4476	9,9995206	10	8,6722183	4486	1,3277817	30	
	40	8,6721865	4472	9,9995196	10	8,6726669	4482	1,3273331	20	
	50	8,6726337	4467	9,9995186	10	8,6731151	4477	1,3268849	10	
42	0	8,6730804	4462	9,9995176	10	8,6735628	4472	1,3264372	0	18
	10	8,6735266	4458	9,9995166	10	8,6740100	4468	1,3259900	50	
	20	8,6739724	4453	9,9995156	10	8,6744568	4463	1,3255432	40	
	30	8,6744177	4449	9,9995146	10	8,6749031	4459	1,3250969	30	
	40	8,6748626	4444	9,9995136	10	8,6753490	4454	1,3246510	20	
	50	8,6753070	4440	9,9995126	10	8,6757944	4449	1,3242056	10	
43	0	8,6757510	4435	9,9995116	10	8,6762393	4446	1,3237607	0	17
	10	8,6761945	4430	9,9995106	10	8,6766839	4440	1,3233161	50	
	20	8,6766375	4426	9,9995096	10	8,6771279	4436	1,3228721	40	
	30	8,6770801	4422	9,9995086	10	8,6775715	4432	1,3224285	30	
	40	8,6775223	4417	9,9995076	10	8,6780147	4426	1,3219853	20	
	50	8,6779640	4412	9,9995066	10	8,6784573	4423	1,3215427	10	
44	0	8,6784052	4408	9,9995056	10	8,6788996	4418	1,3211004	0	16
	10	8,6788460	4404	9,9995046	10	8,6793414	4414	1,3206586	50	
	20	8,6792864	4399	9,9995036	10	8,6797828	4409	1,3202172	40	
	30	8,6797263	4394	9,9995026	10	8,6802237	4404	1,3197763	30	
	40	8,6801657	4390	9,9995016	10	8,6806641	4401	1,3193359	20	
	50	8,6806047	4386	9,9995006	10	8,6811042	4395	1,3188950	10	
45	0	8,6810433	4381	9,9994996	10	8,6815437	4392	1,3184563	0	15
	10	8,6814814	4377	9,9994986	10	8,6819829	4387	1,3180171	50	
	20	8,6819191	4372	9,9994975	11	8,6824216	4382	1,3175784	40	
	30	8,6823563	4378	9,9994965	10	8,6828598	4378	1,3171402	30	
	40	8,6827931	4364	9,9994955	10	8,6832976	4374	1,3167024	20	
	50	8,6832295	4359	9,9994945	10	8,6837350	4369	1,3162650	10	
46	0	8,6836654	4355	9,9994935	10	8,6841719	4365	1,3158251	0	14
	10	8,6841009	4350	9,9994925	10	8,6846083	4361	1,3153816	50	
	20	8,6845357	4347	9,9994914	11	8,6850445	4356	1,3149355	40	
	30	8,6849706	4341	9,9994904	10	8,6854801	4352	1,3144899	30	
	40	8,6854047	4338	9,9994892	10	8,6859153	4348	1,3140437	20	
	50	8,6858385	4333	9,9994880	10	8,6863501	4343	1,3135974	10	
47	0	8,6862718	4328	9,9994874	10	8,6867844	4339	1,3131516	0	13
	10	8,6867046	4325	9,9994863	11	8,6872183	4335	1,3127057	50	
	20	8,6871371	4320	9,9994853	10	8,6876518	4330	1,3122598	40	
	30	8,6875691	4316	9,9994843	10	8,6880848	4326	1,3118141	30	
	40	8,6880007	4311	9,9994833	11	8,6885174	4322	1,3113682	20	
	50	8,6884318	4307	9,9994822	10	8,6889496	4317	1,3109224	10	
48	0	8,6888625	4303	9,9994812	10	8,6893813	4313	1,3104765	0	12
	10	8,6892928	4299	9,9994802	11	8,6898126	4309	1,3100307	50	
	20	8,6897227	4294	9,9994791	10	8,6902435	4305	1,3095849	40	
	30	8,6901521	4290	9,9994781	10	8,6906740	4301	1,3091392	30	
	40	8,6905811	4286	9,9994771	11	8,6911041	4296	1,3086935	20	
	50	8,6910097	4282	9,9994760	10	8,6915337	4292	1,3082478	10	
49	0	8,6914379	4277	9,9994750	10	8,6919629	4288	1,3078021	0	11
	10	8,6918656	4273	9,9994740	11	8,6923917	4283	1,3073564	50	
	20	8,6922929	4269	9,9994729	10	8,6928200	4279	1,3069107	40	
	30	8,6927198	4265	9,9994719	10	8,6932477	4276	1,3064650	30	
	40	8,6931463	4261	9,9994709	11	8,6936755	4271	1,3060193	20	
	50	8,6935724	4256	9,9994698	10	8,6941026	4266	1,3055736	10	
50	0	8,6939980		9,9994688	10	8,6945292		1,3051279	0	10
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

87 deg.

2 deg.

$\frac{1}{2}$	$\frac{1}{2}$	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	$\frac{1}{2}$	$\frac{1}{2}$
50	0	8,6939980	4252	9,9994688	11	8,6945292	4263	1,3054708	0	10
	10	8,6944232	4248	9,9994677	10	8,6949555	4259	1,3050445	50	
	20	8,6948480	4244	9,9994667	9	8,6953814	4254	1,3046186	40	
	30	8,6952724	4240	9,9994656	8	8,6958068	4250	1,3041932	30	
	40	8,6956964	4236	9,9994646	7	8,6962318	4246	1,3037682	20	
51	50	8,6961200	4231	9,9994635	6	8,6966564	4242	1,3033436	10	
	0	8,6965431	4228	9,9994625	5	8,6970806	4238	1,3029194	0	9
	10	8,6969655	4223	9,9994615	4	8,6975044	4234	1,3024956	50	
	20	8,6973882	4219	9,9994604	3	8,6979278	4229	1,3020722	40	
	30	8,6978101	4215	9,9994594	2	8,6983507	4225	1,3016493	30	
	40	8,6982316	4211	9,9994583	1	8,6987733	4221	1,3012267	20	
52	50	8,6986537	4207	9,9994572	0	8,6991954	4218	1,3008046	10	
	0	8,6990734	4202	9,9994562	11	8,6996172	4213	1,3003828	0	8
	10	8,6994936	4199	9,9994551	10	8,7000385	4209	1,2999615	50	
	20	8,6999135	4195	9,9994541	9	8,7004594	4205	1,2995406	40	
	30	8,7003330	4190	9,9994530	8	8,7008799	4201	1,2991201	30	
	40	8,7007520	4187	9,9994520	7	8,7013000	4197	1,2987000	20	
53	50	8,7011707	4182	9,9994509	6	8,7017197	4193	1,2982803	10	
	0	8,7015889	4178	9,9994498	5	8,7021390	4190	1,2978610	0	7
	10	8,7020067	4175	9,9994488	4	8,7025580	4185	1,2974420	50	
	20	8,7024242	4170	9,9994477	3	8,7029765	4181	1,2970235	40	
	30	8,7028412	4166	9,9994467	2	8,7033946	4176	1,2966054	30	
	40	8,7032578	4163	9,9994456	1	8,7038122	4173	1,2961878	20	
54	50	8,7036741	4158	9,9994445	0	8,7042295	4170	1,2957705	10	
	0	8,7040899	4155	9,9994435	11	8,7046465	4165	1,2953535	0	6
	10	8,7045054	4150	9,9994424	10	8,7050630	4161	1,2949370	50	
	20	8,7049204	4146	9,9994413	9	8,7054791	4157	1,2945209	40	
	30	8,7053350	4143	9,9994403	8	8,7058948	4153	1,2941052	30	
	40	8,7057493	4138	9,9994392	7	8,7063101	4149	1,2936899	20	
55	50	8,7061631	4135	9,9994381	6	8,7067250	4145	1,2932750	10	
	0	8,7065766	4130	9,9994370	5	8,7071395	4142	1,2928605	0	5
	10	8,7069896	4127	9,9994360	4	8,7075537	4137	1,2924463	50	
	20	8,7074023	4123	9,9994349	3	8,7079674	4134	1,2920326	40	
	30	8,7078146	4119	9,9994338	2	8,7083808	4129	1,2916192	30	
	40	8,7082265	4115	9,9994328	1	8,7087937	4126	1,2912063	20	
56	50	8,7086380	4110	9,9994317	0	8,7092063	4122	1,2907937	10	
	0	8,7090490	4103	9,9994306	11	8,7096185	4117	1,2903815	0	4
	10	8,7094598	4103	9,9994295	10	8,7100302	4114	1,2899698	50	
	20	8,7098701	4099	9,9994284	9	8,7104416	4111	1,2895584	40	
	30	8,7102809	4095	9,9994274	8	8,7108527	4106	1,2891473	30	
	40	8,7106896	4091	9,9994263	7	8,7112633	4102	1,2887367	20	
57	50	8,7110987	4088	9,9994252	6	8,7116735	4099	1,2883265	10	
	0	8,7115075	4084	9,9994241	5	8,7120834	4095	1,2879166	0	3
	10	8,7119155	4080	9,9994230	4	8,7124929	4090	1,2875071	50	
	20	8,7123239	4076	9,9994219	3	8,7129019	4087	1,2870978	40	
	30	8,7127315	4072	9,9994208	2	8,7133106	4084	1,2866884	30	
	40	8,7131387	4069	9,9994198	1	8,7137190	4079	1,2862810	20	
58	50	8,7135456	4065	9,9994187	0	8,7141269	4076	1,2858731	10	
	0	8,7139520	4061	9,9994176	11	8,7145345	4072	1,2854655	0	2
	10	8,7143581	4057	9,9994165	10	8,7149417	4068	1,2850583	50	
	20	8,7147638	4054	9,9994154	9	8,7153485	4064	1,2846515	40	
	30	8,7151692	4049	9,9994143	8	8,7157549	4060	1,2842451	30	
	40	8,7155741	4045	9,9994132	7	8,7161609	4057	1,2838391	20	
59	50	8,7159787	4042	9,9994121	6	8,7165665	4053	1,2834334	10	
	0	8,7163829	4038	9,9994110	5	8,7169719	4049	1,2830281	0	1
	10	8,7167867	4034	9,9994099	4	8,7173768	4045	1,2826232	50	
	20	8,7171901	4031	9,9994088	3	8,7177813	4042	1,2822187	40	
	30	8,7175932	4027	9,9994077	2	8,7181855	4038	1,2818145	30	
	40	8,7179959	4023	9,9994066	1	8,7185893	4034	1,2814107	20	
60	50	8,7183982	4020	9,9994055	0	8,7189927	4031	1,2810073	10	
	0	8,7188002		9,9994044	11	8,7193958		1,2806042	0	0
$\frac{1}{2}$	$\frac{1}{2}$	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	$\frac{1}{2}$	$\frac{1}{2}$

87 deg.



3 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	8.7188002	4015	9.9994044	11	8.7193958	4026	1.2806042	0	60
	30	8.7200038	4004	9.9994011	11	8.7206027	4015	1.2793973	30	
1	0	8.7212040	3994	9.9993978	11	8.7218063	4004	1.2781937	0	59
	30	8.7224010	3982	9.9993944	11	8.7230065	3994	1.2769935	30	
2	0	8.7235946	3972	9.9993911	11	8.7242035	3983	1.2757965	0	58
	30	8.7247850	3960	9.9993877	11	8.7253972	3972	1.2746028	30	
3	0	8.7259721	3950	9.9993844	11	8.7265877	3961	1.2734123	0	57
	30	8.7271559	3939	9.9993810	11	8.7277749	3951	1.2722251	30	
4	0	8.7283366	3928	9.9993776	11	8.7289589	3940	1.2710411	0	56
	30	8.7295140	3917	9.9993742	11	8.7301397	3929	1.2698603	30	
5	0	8.7306882	3907	9.9993708	11	8.7313174	3918	1.2686826	0	55
	30	8.7318593	3896	9.9993674	11	8.7324918	3908	1.2675082	30	
6	0	8.7330272	3885	9.9993640	11	8.7336631	3898	1.2663369	0	54
	30	8.7341919	3876	9.9993606	12	8.7348313	3887	1.2651687	30	
7	0	8.7353535	3865	9.9993572	12	8.7359964	3876	1.2640036	0	53
	30	8.7365120	3855	9.9993537	11	8.7371583	3867	1.2628417	30	
8	0	8.7376675	3844	9.9993503	12	8.7383172	3856	1.2616828	0	52
	30	8.7388198	3835	9.9993468	12	8.7394730	3846	1.2605270	30	
9	0	8.7399691	3824	9.9993433	11	8.7406258	3836	1.2593742	0	51
	30	8.7411154	3814	9.9993398	11	8.7417755	3826	1.2582245	30	
10	0	8.7422586	3804	9.9993364	12	8.7429222	3816	1.2570778	0	50
	30	8.7433988	3794	9.9993329	12	8.7440660	3805	1.2559340	30	
11	0	8.7445360	3784	9.9993293	11	8.7452067	3796	1.2547933	0	49
	30	8.7456703	3774	9.9993258	11	8.7463444	3786	1.2536556	30	
12	0	8.7468015	3765	9.9993223	12	8.7474752	3777	1.2525208	0	48
	30	8.7479299	3754	9.9993188	12	8.7486111	3766	1.2513889	30	
13	0	8.7490553	3744	9.9993152	12	8.7497400	3757	1.2502600	0	47
	30	8.7501777	3736	9.9993117	12	8.7508661	3747	1.2491339	30	
14	0	8.7512973	3726	9.9993081	12	8.7519892	3737	1.2480108	0	46
	30	8.7524140	3716	9.9993045	12	8.7531095	3728	1.2468905	30	
15	0	8.7535278	3706	9.9993009	11	8.7542269	3718	1.2457731	0	45
	30	8.7546388	3697	9.9992974	12	8.7553414	3709	1.2446586	30	
16	0	8.7557469	3687	9.9992938	12	8.7564531	3700	1.2435469	0	44
	30	8.7568522	3678	9.9992901	12	8.7575620	3690	1.2424380	30	
17	0	8.7579546	3669	9.9992865	12	8.7586681	3681	1.2413319	0	43
	30	8.7590543	3659	9.9992829	12	8.7597714	3671	1.2402281	30	
18	0	8.7601512	3650	9.9992793	13	8.7608719	3662	1.2391281	0	42
	30	8.7612453	3641	9.9992756	12	8.7619697	3653	1.2380303	30	
19	0	8.7623365	3632	9.9992720	13	8.7630647	3644	1.2369353	0	41
	30	8.7634252	3623	9.9992683	12	8.7641569	3635	1.2358431	30	
20	0	8.7645111	3613	9.9992646	12	8.7652465	3626	1.2347535	0	40
	30	8.7655943	3604	9.9992609	12	8.7663333	3617	1.2336667	30	
21	0	8.7666747	3596	9.9992572	12	8.7674175	3607	1.2325825	0	39
	30	8.7677525	3585	9.9992535	12	8.7684989	3599	1.2315011	30	
22	0	8.7688275	3578	9.9992498	12	8.7695777	3590	1.2304223	0	38
	30	8.7699000	3568	9.9992461	12	8.7706539	3581	1.2293461	30	
23	0	8.7709697	3560	9.9992424	13	8.7717274	3572	1.2282726	0	37
	30	8.7720369	3551	9.9992386	12	8.7727982	3564	1.2272018	30	
24	0	8.7731014	3542	9.9992349	13	8.7738665	3555	1.2261335	0	36
	30	8.7741633	3533	9.9992311	12	8.7749321	3547	1.2250679	30	
25	0	8.7752226	3525	9.9992274	13	8.7759952	3538	1.2240048	0	35
	30	8.7762793	3516	9.9992236	13	8.7770557	3529	1.2229443	30	
26	0	8.7773334	3508	9.9992198	13	8.7781136	3521	1.2218864	0	34
	30	8.7783850	3499	9.9992160	13	8.7791690	3512	1.2208310	30	
27	0	8.7794340	3491	9.9992122	13	8.7802218	3504	1.2197782	0	33
	30	8.7804805	3482	9.9992084	13	8.7812721	3495	1.2187279	30	
28	0	8.7815244	3475	9.9992046	13	8.7823199	3487	1.2176801	0	32
	30	8.7825659	3466	9.9992007	12	8.7833651	3479	1.2166349	30	
29	0	8.7836048	3458	9.9991969	15	8.7844079	3471	1.2155921	0	31
	30	8.7846413	3449	9.9991931	13	8.7854482	3463	1.2145518	30	
30	0	8.7856753		9.9991892		8.7864861		1.2135139	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

86 deg.

3 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	8.7856753	3441	9.9991892	13	8.7864861	3454	1.2135139	0	30
30	30	8.7867068	3433	9.9991853	13	8.7875215	3446	1.2124785	30	
31	0	8.7877359	3424	9.9991815	13	8.7885564	3438	1.2114456	0	29
30	30	8.7887625	3416	9.9991776	13	8.7895842	3430	1.2104151	30	
32	0	8.7897867	3408	9.9991737	13	8.7906130	3422	1.2093870	0	28
30	30	8.7908034	3401	9.9991698	13	8.7916387	3413	1.2083613	30	
33	0	8.7918278	3393	9.9991959	13	8.7926620	3405	1.2073380	0	27
30	30	8.7928448	3384	9.9991619	14	8.7936829	3397	1.2063171	30	
34	0	8.7938594	3375	9.9991580	13	8.7947014	3390	1.2052866	0	26
30	30	8.7948716	3369	9.9991541	14	8.7957175	3382	1.2042825	30	
35	0	8.7958814	3361	9.9991501	13	8.7967313	3374	1.2032687	0	25
30	30	8.7968889	3353	9.9991461	13	8.7977428	3366	1.2022572	30	
36	0	8.7978941	3345	9.9991422	13	8.7987519	3359	1.2012481	0	24
30	30	8.7988969	3338	9.9991382	14	8.7997587	3351	1.2002413	30	
37	0	8.7998974	3330	9.9991342	13	8.8007632	3343	1.1992368	0	23
30	30	8.8008956	3322	9.9991302	13	8.8017654	3335	1.1982346	30	
38	0	8.8018915	3315	9.9991262	13	8.8027653	3328	1.1972347	0	22
30	30	8.8028851	3307	9.9991222	13	8.8037629	3321	1.1962371	30	
39	0	8.8038764	3300	9.9991182	14	8.8047583	3313	1.1952417	0	21
30	30	8.8048655	3292	9.9991141	13	8.8057514	3305	1.1942486	30	
40	0	8.8058523	3285	9.9991101	14	8.8067422	3298	1.1932578	0	20
30	30	8.8068369	3277	9.9991060	13	8.8077309	3290	1.1922691	30	
41	0	8.8078192	3270	9.9991020	14	8.8087172	3283	1.1912828	0	19
30	30	8.8087993	3262	9.9990979	14	8.8097014	3276	1.1902986	30	
42	0	8.8097772	3255	9.9990938	13	8.8106834	3268	1.1893166	0	18
30	30	8.8107529	3247	9.9990897	13	8.8116631	3262	1.1883369	30	
43	0	8.8117264	3240	9.9990856	14	8.8126407	3254	1.1873593	0	17
30	30	8.8126977	3232	9.9990815	13	8.8136161	3247	1.1863839	30	
44	0	8.8136668	3225	9.9990774	14	8.8145894	3239	1.1854106	0	16
30	30	8.8146337	3219	9.9990733	14	8.8155605	3232	1.1844395	30	
45	0	8.8155985	3211	9.9990691	13	8.8165294	3225	1.1834706	0	15
30	30	8.8165612	3204	9.9990650	13	8.8174962	3218	1.1825038	30	
46	0	8.8175217	3197	9.9990608	14	8.8184608	3211	1.1815392	0	14
30	30	8.8184801	3190	9.9990567	13	8.8194234	3204	1.1805766	30	
47	0	8.8194363	3183	9.9990525	14	8.8203838	3197	1.1796162	0	13
30	30	8.8203905	3176	9.9990483	14	8.8213422	3189	1.1786578	30	
48	0	8.8213425	3169	9.9990441	14	8.8222984	3183	1.1777016	0	12
30	30	8.8222925	3162	9.9990399	14	8.8232526	3175	1.1767474	30	
49	0	8.8232404	3155	9.9990357	14	8.8242045	3169	1.1757954	0	11
30	30	8.8241862	3148	9.9990315	14	8.8251547	3162	1.1748453	30	
50	0	8.8251299	3141	9.9990273	14	8.8261026	3156	1.1738974	0	10
30	30	8.8260716	3134	9.9990230	14	8.8270485	3149	1.1729515	30	
51	0	8.8270112	3128	9.9990188	14	8.8279924	3142	1.1720076	0	9
30	30	8.8279483	3121	9.9990145	14	8.8289343	3135	1.1710657	30	
52	0	8.8288834	3114	9.9990103	15	8.8298741	3128	1.1701259	0	8
30	30	8.8298179	3108	9.9990060	14	8.8308119	3122	1.1691881	30	
53	0	8.8307495	3101	9.9990017	14	8.8317478	3115	1.1682522	0	7
30	30	8.8316790	3094	9.9989974	14	8.8326816	3108	1.1673184	30	
54	0	8.8326066	3087	9.9989931	14	8.8336134	3102	1.1663866	0	6
30	30	8.8335321	3081	9.9989888	14	8.8345433	3095	1.1654567	30	
55	0	8.8344557	3074	9.9989845	15	8.8354712	3089	1.1645288	0	5
30	30	8.8353773	3068	9.9989802	14	8.8363971	3082	1.1636029	30	
56	0	8.8362969	3062	9.9989759	14	8.8373211	3076	1.1626789	0	4
30	30	8.8372146	3055	9.9989715	15	8.8382432	3069	1.1617568	30	
57	0	8.8381304	3048	9.9989671	14	8.8391633	3062	1.1608367	0	3
30	30	8.8390442	3042	9.9989628	15	8.8400814	3057	1.1599186	30	
58	0	8.8399561	3035	9.9989584	15	8.8409977	3050	1.1590025	0	2
30	30	8.8408661	3029	9.9989540	15	8.8419121	3043	1.1580879	30	
59	0	8.8417741	3023	9.9989496	15	8.8428245	3037	1.1571755	0	1
30	30	8.8426803	3016	9.9989452	15	8.8437351	3031	1.1562649	30	
60	0	8.8435845		9.9989408		8.8446437		1.1553563	0	0
—	—	l. sin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	—	—

86 deg.

## 4 deg.

	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	8, 8435845	3010	9, 9989408	15	8, 8446437	3025	1, 1553563	0	60
	30	8, 8444869	3004	9, 9989364	15	8, 8455505	3019	1, 1544495	30	
1	0	8, 8453874	2997	9, 9989319	14	8, 8464554	3013	1, 1535446	0	59
	30	8, 8462860	2991	9, 9989275	15	8, 8473585	3006	1, 1526415	30	
2	0	8, 8471827	2985	9, 9989230	14	8, 8482577	3000	1, 1517403	0	58
	30	8, 8480776	2979	9, 9989186	15	8, 8491570	2994	1, 1508410	30	
3	0	8, 8489707	2972	9, 9989141	15	8, 8500566	2987	1, 1499434	0	57
	30	8, 8498619	2966	9, 9989096	14	8, 8509522	2982	1, 1490478	30	
4	0	8, 8507512	2961	9, 9989052	15	8, 8518461	2975	1, 1481539	0	56
	30	8, 8516383	2954	9, 9989007	15	8, 8527381	2970	1, 1472619	30	
5	0	8, 8525245	2948	9, 9988962	15	8, 8536283	2964	1, 1463717	0	55
	30	8, 8534084	2942	9, 9988916	15	8, 8545168	2957	1, 1454832	30	
6	0	8, 8542905	2937	9, 9988871	15	8, 8554034	2951	1, 1445966	0	54
	30	8, 8551708	2931	9, 9988826	15	8, 8562882	2946	1, 1437118	30	
7	0	8, 8560473	2925	9, 9988780	15	8, 8571713	2940	1, 1428287	0	53
	30	8, 8569261	2918	9, 9988735	15	8, 8580526	2934	1, 1419474	30	
8	0	8, 8578010	2913	9, 9988689	15	8, 8589321	2928	1, 1410679	0	52
	30	8, 8586742	2907	9, 9988644	16	8, 8598099	2922	1, 1401901	30	
9	0	8, 8595457	2900	9, 9988598	15	8, 8606859	2916	1, 1393141	0	51
	30	8, 8604153	2895	9, 9988552	15	8, 8615601	2911	1, 1384399	30	
10	0	8, 8612833	2889	9, 9988505	15	8, 8624327	2904	1, 1375673	0	50
	30	8, 8621495	2883	9, 9988460	15	8, 8633035	2898	1, 1366955	30	
11	0	8, 8630139	2878	9, 9988414	16	8, 8641725	2893	1, 1358275	0	49
	30	8, 8638766	2872	9, 9988368	16	8, 8650399	2887	1, 1349601	30	
12	0	8, 8647376	2867	9, 9988321	15	8, 8659055	2882	1, 1340945	0	48
	30	8, 8655962	2861	9, 9988275	16	8, 8667695	2876	1, 1332305	30	
13	0	8, 8664545	2855	9, 9988228	15	8, 8676317	2870	1, 1323683	0	47
	30	8, 8673104	2849	9, 9988182	16	8, 8684923	2864	1, 1315077	30	
14	0	8, 8681646	2844	9, 9988135	16	8, 8693511	2859	1, 1306489	0	46
	30	8, 8690171	2838	9, 9988088	15	8, 8702083	2854	1, 1297917	30	
15	0	8, 8698680	2832	9, 9988041	15	8, 8710638	2848	1, 1289362	0	45
	30	8, 8707171	2827	9, 9987994	15	8, 8719177	2842	1, 1280823	30	
16	0	8, 8715646	2821	9, 9987947	16	8, 8727699	2837	1, 1272301	0	44
	30	8, 8724105	2815	9, 9987900	16	8, 8736205	2831	1, 1263795	30	
17	0	8, 8732546	2811	9, 9987853	16	8, 8744694	2826	1, 1255306	0	43
	30	8, 8740972	2804	9, 9987805	15	8, 8753166	2821	1, 1246834	30	
18	0	8, 8749381	2799	9, 9987758	16	8, 8761623	2815	1, 1238377	0	42
	30	8, 8757773	2794	9, 9987710	15	8, 8770063	2810	1, 1229937	30	
19	0	8, 8766150	2788	9, 9987663	16	8, 8778487	2804	1, 1221513	0	41
	30	8, 8774510	2783	9, 9987615	16	8, 8786895	2799	1, 1213105	30	
20	0	8, 8782854	2777	9, 9987567	16	8, 8795286	2794	1, 1204714	0	40
	30	8, 8791181	2773	9, 9987519	16	8, 8803662	2788	1, 1196338	30	
21	0	8, 8799493	2767	9, 9987471	16	8, 8812022	2783	1, 1187978	0	39
	30	8, 8807789	2762	9, 9987423	16	8, 8820366	2778	1, 1179634	30	
22	0	8, 8816069	2756	9, 9987375	16	8, 8828694	2773	1, 1171306	0	38
	30	8, 8824333	2751	9, 9987327	16	8, 8837006	2768	1, 1162994	30	
23	0	8, 8832581	2746	9, 9987278	16	8, 8845303	2762	1, 1154677	0	37
	30	8, 8840814	2741	9, 9987230	16	8, 8853584	2757	1, 1146416	30	
24	0	8, 8849031	2735	9, 9987181	16	8, 8861850	2751	1, 1138150	0	36
	30	8, 8857232	2731	9, 9987133	17	8, 8870100	2746	1, 1129900	30	
25	0	8, 8865418	2725	9, 9987084	16	8, 8878334	2741	1, 1121666	0	35
	30	8, 8873588	2720	9, 9987035	16	8, 8886553	2736	1, 1113447	30	
26	0	8, 8881743	2715	9, 9986986	16	8, 8894757	2731	1, 1105243	0	34
	30	8, 8889883	2709	9, 9986937	16	8, 8902945	2726	1, 1097055	30	
27	0	8, 8898007	2704	9, 9986888	16	8, 8911119	2721	1, 1088881	0	33
	30	8, 8906116	2699	9, 9986839	17	8, 8919277	2716	1, 1080723	30	
28	0	8, 8914209	2695	9, 9986790	17	8, 8927420	2711	1, 1072580	0	32
	30	8, 8922283	2689	9, 9986740	16	8, 8935543	2706	1, 1064452	30	
29	0	8, 8930351	2685	9, 9986691	17	8, 8943660	2701	1, 1056340	0	31
	30	8, 8938400	2679	9, 9986641	16	8, 8951758	2696	1, 1048242	30	
30	0	8, 8946433		9, 9986591		8, 8959842		1, 1040153	0	30
			10"		10"		10"			
	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

85 deg.

17\*

4 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	8,8946433		9,9986591		8,8959842		1,1040158	0	30
	30	8,8954451	2674	9,9986542	16	8,8967910	2691	1,1032000	30	
31	0	8,8962455	2670	9,9986492	17	8,8975963	2686	1,1024037	0	29
	30	8,8970444	2665	9,9986442	17	8,8984002	2681	1,1015938	30	
32	0	8,8978418	2660	9,9986392	17	8,8992026	2676	1,1007974	0	28
	30	8,8986377	2655	9,9986342	17	8,9000036	2672	1,0999964	30	
33	0	8,8994322	2650	9,9986292	17	8,9008030	2666	1,0992197	0	27
	30	8,9002252	2645	9,9986241	17	8,9016011	2662	1,0983989	30	
34	0	8,9010168	2640	9,9986191	17	8,9023977	2657	1,0976023	0	26
	30	8,9018069	2635	9,9986140	17	8,9031928	2652	1,0968072	30	
			2630				2648			
35	0	8,9025955	2626	9,9986090	17	8,9039866	2642	1,0960134	0	25
	30	8,9033828	2620	9,9986039	17	8,9047788	2638	1,0952212	30	
36	0	8,9041685	2617	9,9985988	17	8,9055697	2633	1,0944303	0	24
	30	8,9049529	2611	9,9985937	17	8,9063592	2628	1,0936408	30	
37	0	8,9057358	2607	9,9985886	17	8,9071472	2624	1,0928528	0	23
	30	8,9065174	2602	9,9985835	17	8,9079338	2619	1,0920662	30	
38	0	8,9072975	2597	9,9985784	17	8,9087190	2615	1,0912810	0	22
	30	8,9080762	2592	9,9985733	17	8,9095029	2609	1,0904971	30	
39	0	8,9088535	2588	9,9985682	17	8,9102853	2605	1,0897147	0	21
	30	8,9096294	2583	9,9985630	17	8,9110663	2601	1,0889337	30	
40	0	8,9104039	2578	9,9985579	17	8,9118460	2596	1,0881540	0	20
	30	8,9111770	2574	9,9985527	17	8,9126243	2591	1,0873797	30	
41	0	8,9119487	2570	9,9985475	17	8,9134012	2586	1,0866088	0	19
	30	8,9127191	2565	9,9985424	18	8,9141767	2582	1,0858233	30	
42	0	8,9134881	2560	9,9985372	18	8,9149509	2577	1,0850491	0	18
	30	8,9142557	2555	9,9985320	18	8,9157237	2573	1,0842763	30	
43	0	8,9150219	2551	9,9985268	18	8,9164952	2568	1,0835048	0	17
	30	8,9157868	2547	9,9985216	18	8,9172653	2564	1,0827347	30	
44	0	8,9165504	2542	9,9985163	18	8,9180340	2560	1,0819660	0	16
	30	8,9173125	2538	9,9985111	18	8,9188014	2556	1,0811986	30	
45	0	8,9180734	2533	9,9985058	17	8,9195675	2551	1,0804325	0	15
	30	8,9188329	2529	9,9985006	18	8,9203323	2546	1,0796677	30	
45	0	8,9195911	2524	9,9984953	18	8,9210957	2542	1,0789043	0	14
	30	8,9203479	2520	9,9984901	18	8,9218578	2538	1,0781422	30	
47	0	8,9211034	2516	9,9984848	18	8,9226186	2533	1,0773814	0	13
	30	8,9218576	2511	9,9984795	18	8,9233781	2529	1,0766219	30	
48	0	8,9226105	2506	9,9984742	18	8,9241363	2524	1,0758637	0	12
	30	8,9233620	2503	9,9984689	18	8,9248932	2520	1,0751068	30	
49	0	8,9241123	2498	9,9984636	18	8,9256487	2516	1,0743513	0	11
	30	8,9248613	2493	9,9984582	17	8,9264030	2512	1,0735970	30	
50	0	8,9256089	2489	9,9984529	18	8,9271560	2507	1,0728440	0	10
	30	8,9263553	2485	9,9984476	18	8,9279077	2503	1,0720923	30	
51	0	8,9271003	2481	9,9984422	18	8,9286581	2499	1,0713419	0	9
	30	8,9278441	2477	9,9984368	18	8,9294073	2494	1,0705927	30	
52	0	8,9285866	2472	9,9984315	18	8,9301552	2490	1,0698448	0	8
	30	8,9293279	2467	9,9984261	18	8,9309018	2486	1,0690982	30	
53	0	8,9300678	2464	9,9984207	18	8,9316471	2482	1,0683529	0	7
	30	8,9308065	2459	9,9984153	18	8,9323912	2478	1,0676088	30	
54	0	8,9315439	2456	9,9984099	18	8,9331340	2474	1,0668660	0	6
	30	8,9322801	2451	9,9984045	19	8,9338756	2470	1,0661244	30	
55	0	8,9330150	2447	9,9983990	18	8,9346160	2465	1,0653840	0	5
	30	8,9337487	2442	9,9983936	18	8,9353551	2461	1,0646449	30	
56	0	8,9344811	2438	9,9983881	18	8,9360929	2457	1,0639071	0	4
	30	8,9352122	2435	9,9983827	18	8,9368296	2452	1,0631704	30	
57	0	8,9359422	2430	9,9983772	18	8,9375650	2448	1,0624350	0	3
	30	8,9366709	2426	9,9983717	18	8,9382991	2445	1,0617009	30	
58	0	8,9373983	2423	9,9983663	19	8,9390321	2440	1,0609679	0	2
	30	8,9381246	2418	9,9983608	19	8,9397638	2437	1,0602362	30	
59	0	8,9388496	2414	9,9983553	19	8,9404944	2432	1,0595056	0	1
	30	8,9395734	2410	9,9983497	18	8,9412237	2428	1,0587763	30	
60	0	8,9402960		9,9983442		8,9419518		1,0580482	0	0
			10"		10"		10"			
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

85 deg.



5 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	8.9402960	2406	9.9983442	18	8.9419518	2424	1.0580482	0	60
0	30	8.9410174	2402	9.9983337	19	8.9426787	2420	1.0573213	30	59
1	0	8.9417376	2398	9.9983332	19	8.9434044	2417	1.0565565	0	58
1	30	8.9424565	2394	9.9983276	18	8.9441289	2413	1.0559711	30	57
2	0	8.9431743	2390	9.9983220	18	8.9448523	2408	1.0551477	0	56
2	30	8.9438909	2386	9.9983165	19	8.9455744	2405	1.0544256	30	55
3	0	8.9446063	2382	9.9983109	19	8.9462954	2401	1.0537046	0	54
3	30	8.9453205	2378	9.9983053	18	8.9470152	2397	1.0529848	30	53
4	0	8.9460335	2374	9.9982997	18	8.9477338	2393	1.0522662	0	52
4	30	8.9467454	2370	9.9982941	19	8.9484513	2389	1.0515487	30	51
5	0	8.9474561	2366	9.9982885	19	8.9491676	2385	1.0508324	0	50
5	30	8.9481656	2362	9.9982829	19	8.9498827	2381	1.0501173	30	49
6	0	8.9488739	2359	9.9982772	18	8.9505967	2377	1.0494033	0	48
6	30	8.9495811	2354	9.9982716	19	8.9513095	2373	1.0486905	30	47
7	0	8.9502871	2351	9.9982660	19	8.9520211	2370	1.0479789	0	46
7	30	8.9509920	2347	9.9982603	19	8.9527317	2366	1.0472683	30	45
8	0	8.9516957	2343	9.9982546	19	8.9534410	2363	1.0465590	0	44
8	30	8.9523982	2340	9.9982489	19	8.9541493	2358	1.0458507	30	43
9	0	8.9530996	2336	9.9982433	19	8.9548564	2354	1.0451436	0	42
9	30	8.9537999	2332	9.9982376	19	8.9555624	2350	1.0444376	30	41
10	0	8.9544991	2328	9.9982318	19	8.9562672	2347	1.0437328	0	40
10	30	8.9551971	2324	9.9982261	19	8.9569709	2344	1.0430291	30	39
11	0	8.9558940	2320	9.9982204	19	8.9576735	2340	1.0423265	0	38
11	30	8.9565877	2317	9.9982147	19	8.9583750	2336	1.0416250	30	37
12	0	8.9572843	2313	9.9982089	19	8.9590754	2332	1.0409246	0	36
12	30	8.9579779	2309	9.9982032	19	8.9597747	2328	1.0402253	30	35
13	0	8.9586703	2305	9.9981974	19	8.9604728	2325	1.0395272	0	34
13	30	8.9593615	2302	9.9981916	19	8.9611699	2321	1.0388301	30	33
14	0	8.9600517	2298	9.9981859	20	8.9618659	2317	1.0381341	0	32
14	30	8.9607408	2294	9.9981801	20	8.9625607	2314	1.0374393	30	31
15	0	8.9614288	2291	9.9981743	20	8.9632545	2310	1.0367455	0	30
15	30	8.9621157	2287	9.9981685	20	8.9639472	2306	1.0360528	30	29
16	0	8.9628014	2284	9.9981626	19	8.9646388	2303	1.0353612	0	28
16	30	8.9634861	2280	9.9981568	19	8.9653293	2299	1.0346707	30	27
17	0	8.9641697	2277	9.9981510	20	8.9660183	2295	1.0339812	0	26
17	30	8.9648523	2272	9.9981451	19	8.9667071	2292	1.0332929	30	25
18	0	8.9655337	2269	9.9981393	20	8.9673944	2289	1.0326056	0	24
18	30	8.9662141	2265	9.9981334	19	8.9680807	2285	1.0319193	30	23
19	0	8.9668934	2262	9.9981275	19	8.9687658	2282	1.0312342	0	22
19	30	8.9675716	2258	9.9981217	20	8.9694499	2278	1.0305501	30	21
20	0	8.9682487	2255	9.9981158	20	8.9701330	2274	1.0298670	0	20
20	30	8.9689248	2252	9.9981099	20	8.9708150	2271	1.0291850	30	19
21	0	8.9695993	2247	9.9981040	20	8.9714959	2268	1.0285041	0	18
21	30	8.9702738	2245	9.9980980	19	8.9721758	2264	1.0278242	30	17
22	0	8.9709468	2240	9.9980921	20	8.9728547	2260	1.0271453	0	16
22	30	8.9716186	2238	9.9980862	20	8.9735325	2257	1.0264675	30	15
23	0	8.9722875	2233	9.9980802	20	8.9742092	2254	1.0257908	0	14
23	30	8.9729572	2231	9.9980743	20	8.9748850	2250	1.0251150	30	13
24	0	8.9736280	2227	9.9980683	20	8.9755597	2247	1.0244403	0	12
24	30	8.9742957	2223	9.9980623	20	8.9762334	2243	1.0237666	30	11
25	0	8.9749624	2220	9.9980563	20	8.9769060	2240	1.0230940	0	10
25	30	8.9756280	2217	9.9980503	20	8.9775777	2236	1.0224223	30	9
26	0	8.9762926	2213	9.9980443	20	8.9782483	2233	1.0217517	0	8
26	30	8.9769562	2210	9.9980383	20	8.9789179	2229	1.0210821	30	7
27	0	8.9776188	2206	9.9980323	20	8.9795865	2226	1.0204135	0	6
27	30	8.9782803	2203	9.9980263	20	8.9802540	2223	1.0197460	30	5
28	0	8.9789408	2200	9.9980202	20	8.9809206	2220	1.0190794	0	4
28	30	8.9796004	2196	9.9980142	20	8.9815862	2216	1.0184138	30	3
29	0	8.9802599	2192	9.9980081	20	8.9822507	2213	1.0177493	0	2
29	30	8.9809164	2189	9.9980021	21	8.9829143	2210	1.0170857	30	1
30	0	8.9815729		9.9979960		8.9835769		1.0164231	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

84 deg.

5 deg.

l.	"	l. sin.	dif. 10"	l. cosin.	d.	l. tang.	dif. 10"	l. cotan.	"	l.
—	—	—	—	—	10"	—	—	—	—	—
30	o	8,9815723	2186	9,9979560	21	8,9835769	2206	1,0164231	o	30
30	o	8,9822284	2182	9,9978333	20	8,9842385	2203	1,0157615	o	30
31	o	8,9828329	2179	9,9977177	20	8,9848921	2200	1,0151009	o	29
30	o	8,9835364	2176	9,9976021	20	8,9855537	2196	1,0144413	o	30
32	o	8,9841889	2173	9,9974865	21	8,9862173	2194	1,0137827	o	28
30	o	8,9848404	2170	9,9973709	21	8,9868750	2190	1,0131250	o	30
33	o	8,9854910	2166	9,9972553	20	8,9875317	2186	1,0124683	o	27
30	o	8,9861405	2163	9,9971397	21	8,9881874	2183	1,0118126	o	30
34	o	8,9867891	2160	9,9970241	20	8,9888421	2180	1,0111579	o	26
30	o	8,9874367	2157	9,9969085	21	8,9894959	2177	1,0105041	o	30
35	o	8,9880834	2153	9,9967929	21	8,9901437	2174	1,0098513	o	25
30	o	8,9887290	2150	9,9966773	20	8,9907905	2171	1,0091975	o	30
36	o	8,9893737	2147	9,9965617	20	8,9914354	2167	1,0085446	o	24
30	o	8,9900174	2144	9,9964461	21	8,9920803	2165	1,0078917	o	23
37	o	8,9906602	2141	9,9963305	21	8,9927253	2161	1,0072387	o	23
30	o	8,9913020	2138	9,9962149	21	8,9933703	2158	1,0065857	o	30
38	o	8,9919449	2134	9,9960993	21	8,9940154	2155	1,0059327	o	22
30	o	8,9925883	2131	9,9959837	20	8,9946605	2152	1,0052797	o	30
39	o	8,9932317	2128	9,9958681	21	8,9953056	2149	1,0046267	o	21
30	o	8,9938757	2125	9,9957525	20	8,9959507	2145	1,0039737	o	30
40	o	8,9945196	2121	9,9956369	21	8,9965958	2142	1,0033207	o	20
30	o	8,9951636	2118	9,9955213	21	8,9972409	2139	1,0026677	o	30
41	o	8,9958075	2115	9,9954057	21	8,9978860	2137	1,0020147	o	19
30	o	8,9964515	2112	9,9952901	21	8,9985311	2133	1,0013617	o	30
42	o	8,9970955	2109	9,9951745	21	8,9991762	2130	1,0007087	o	18
30	o	8,9977395	2106	9,9950589	21	8,9998213	2127	1,0000557	o	30
43	o	8,9983834	2103	9,9949433	21	8,1004664	2124	0,9994027	o	17
30	o	8,9990274	2100	9,9948277	21	8,1001115	2120	0,9987497	o	30
44	o	8,9996714	2097	9,9947121	21	8,1007566	2118	0,9980967	o	16
30	o	9,0003154	2094	9,9945965	21	8,1004017	2115	0,9974437	o	30
45	o	9,0009594	2090	9,9944809	21	8,1000468	2112	0,9967907	o	15
30	o	9,0016034	2088	9,9943653	21	8,1006919	2109	0,9961377	o	30
46	o	9,0022474	2085	9,9942497	21	8,1003370	2106	0,9954847	o	14
30	o	9,0028914	2083	9,9941341	21	8,1009821	2103	0,9948317	o	30
47	o	9,0035354	2078	9,9940185	21	8,1006272	2100	0,9941787	o	13
30	o	9,0041794	2075	9,9939029	21	8,1002723	2097	0,9935257	o	30
48	o	9,0048234	2072	9,9937873	21	8,1009174	2094	0,9928727	o	12
30	o	9,0054674	2069	9,9936717	21	8,1005625	2091	0,9922197	o	30
49	o	9,0061114	2066	9,9935561	22	8,1002076	2088	0,9915667	o	11
30	o	9,0067554	2063	9,9934405	21	8,1008527	2085	0,9909137	o	30
50	o	9,0073994	2061	9,9933249	22	8,1004978	2081	0,9902607	o	10
30	o	9,0080434	2057	9,9932093	21	8,1001429	2078	0,9896077	o	30
51	o	9,0086874	2055	9,9930937	21	8,1007880	2075	0,9889547	o	9
30	o	9,0093314	2051	9,9929781	22	8,1004331	2073	0,9883017	o	30
52	o	9,0099754	2049	9,9928625	22	8,1000782	2070	0,9876487	o	8
30	o	9,0106194	2046	9,9927469	22	8,1007233	2068	0,9869957	o	30
53	o	9,0112634	2042	9,9926313	22	8,1003684	2065	0,9863427	o	7
30	o	9,0119074	2040	9,9925157	22	8,1000135	2062	0,9856897	o	30
54	o	9,0125514	2037	9,9924001	21	8,1006586	2059	0,9850367	o	6
30	o	9,0131954	2034	9,9922845	22	8,1003037	2057	0,9843837	o	30
55	o	9,0138394	2032	9,9921689	22	8,1009488	2053	0,9837307	o	5
30	o	9,0144834	2029	9,9920533	22	8,1005939	2050	0,9830777	o	30
56	o	9,0151274	2026	9,9919377	22	8,1002390	2047	0,9824247	o	4
30	o	9,0157714	2022	9,9918221	22	8,1008841	2044	0,9817717	o	30
57	o	9,0164154	2019	9,9917065	22	8,1005292	2042	0,9811187	o	3
30	o	9,0170594	2017	9,9915909	22	8,1001743	2039	0,9804657	o	30
58	o	9,0177034	2014	9,9914753	22	8,1008194	2036	0,9798127	o	2
30	o	9,0183474	2012	9,9913597	22	8,1004645	2033	0,9791597	o	30
59	o	9,0189914	2009	9,9912441	22	8,1001096	2031	0,9785067	o	1
30	o	9,0196354	2006	9,9911285	22	8,1007547	2028	0,9778537	o	30
60	o	9,0202794	2003	9,9910129	22	8,1003998	2025	0,9771997	o	0
—	—	—	10"	—	10"	—	10"	—	—	—
l.	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	l.

84 deg.

6 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.0192346	2002	9.9976143	22	9.0216202	2025	0.9783798	0	60
	30	9.0198351	2000	9.9976077	22	9.0222274	2022	0.9777766	30	
1	0	9.0204348	1998	9.9976011	23	9.0228338	2019	0.9771662	0	59
	30	9.0210337	1995	9.9975944	22	9.0234393	2017	0.9765607	30	
2	0	9.0216318	1992	9.9975877	22	9.0240441	2014	0.9759559	0	58
	30	9.0222290	1989	9.9975810	22	9.0246480	2011	0.9753520	30	
3	0	9.0228254	1986	9.9975743	22	9.0252510	2009	0.9747490	0	57
	30	9.0234210	1983	9.9975676	22	9.0258533	2006	0.9741467	30	
4	0	9.0240157	1981	9.9975609	22	9.0264548	2003	0.9735452	0	56
	30	9.0246096	1978	9.9975542	22	9.0270554	2000	0.9729446	30	
5	0	9.0252027	1975	9.9975475	22	9.0276552	1998	0.9723448	0	55
	30	9.0257950	1972	9.9975408	23	9.0282542	1995	0.9717458	30	
6	0	9.0263865	1969	9.9975340	22	9.0288524	1993	0.9711476	0	54
	30	9.0269771	1967	9.9975273	23	9.0294498	1990	0.9705502	30	
7	0	9.0275669	1965	9.9975205	23	9.0300464	1987	0.9699536	0	53
	30	9.0281560	1961	9.9975137	22	9.0306422	1985	0.9693578	30	
8	0	9.0287442	1959	9.9975069	22	9.0312373	1981	0.9687627	0	52
	30	9.0293316	1956	9.9975001	22	9.0318315	1979	0.9681685	30	
9	0	9.0299182	1954	9.9974933	22	9.0324249	1976	0.9675751	0	51
	30	9.0305040	1951	9.9974865	22	9.0330175	1974	0.9669825	30	
10	0	9.0310890	1949	9.9974797	23	9.0336093	1971	0.9663907	0	50
	30	9.0316733	1945	9.9974729	23	9.0342004	1968	0.9657996	30	
11	0	9.0322567	1943	9.9974660	22	9.0347906	1966	0.9652094	0	49
	30	9.0328393	1941	9.9974592	23	9.0353801	1963	0.9646199	30	
12	0	9.0334212	1937	9.9974523	22	9.0359688	1961	0.9640312	0	48
	30	9.0340022	1935	9.9974455	23	9.0365567	1959	0.9634433	30	
13	0	9.0345825	1932	9.9974386	23	9.0371439	1955	0.9628561	0	47
	30	9.0351620	1930	9.9974317	23	9.0377303	1953	0.9622677	30	
14	0	9.0357407	1927	9.9974248	23	9.0383159	1950	0.9616841	0	46
	30	9.0363186	1925	9.9974179	23	9.0389007	1948	0.9610993	30	
15	0	9.0368958	1922	9.9974110	23	9.0394848	1945	0.9605152	0	45
	30	9.0374721	1920	9.9974041	23	9.0400681	1942	0.9599319	30	
16	0	9.0380477	1917	9.9973971	23	9.0406506	1940	0.9593494	0	44
	30	9.0386226	1914	9.9973902	23	9.0412324	1937	0.9587676	30	
17	0	9.0391966	1912	9.9973833	24	9.0418134	1935	0.9581866	0	43
	30	9.0397699	1909	9.9973763	23	9.0423936	1933	0.9576064	30	
18	0	9.0403424	1907	9.9973693	23	9.0429731	1930	0.9570269	0	42
	30	9.0409142	1904	9.9973623	23	9.0435519	1927	0.9564481	30	
19	0	9.0414852	1902	9.9973554	23	9.0441299	1924	0.9558701	0	41
	30	9.0420555	1899	9.9973484	24	9.0447071	1922	0.9552929	30	
20	0	9.0426249	1897	9.9973414	24	9.0452836	1920	0.9547164	0	40
	30	9.0431937	1894	9.9973343	23	9.0458593	1918	0.9541407	30	
21	0	9.0437617	1891	9.9973273	23	9.0464343	1915	0.9535657	0	39
	30	9.0443289	1889	9.9973203	24	9.0470086	1913	0.9529914	30	
22	0	9.0448954	1886	9.9973132	23	9.0475821	1910	0.9524179	0	38
	30	9.0454611	1884	9.9973062	24	9.0481549	1908	0.9518451	30	
23	0	9.0460261	1882	9.9972991	23	9.0487270	1905	0.9512730	0	37
	30	9.0465903	1880	9.9972921	24	9.0492983	1903	0.9507017	30	
24	0	9.0471538	1877	9.9972850	24	9.0498689	1900	0.9501311	0	36
	30	9.0477166	1874	9.9972779	24	9.0504367	1898	0.9495613	30	
25	0	9.0482786	1872	9.9972708	24	9.0510078	1896	0.9489922	0	35
	30	9.0488399	1870	9.9972637	24	9.0515762	1894	0.9484238	30	
26	0	9.0494005	1867	9.9972566	24	9.0521439	1891	0.9478561	0	34
	30	9.0499603	1865	9.9972494	23	9.0527109	1888	0.9472891	30	
27	0	9.0505194	1862	9.9972423	24	9.0532771	1886	0.9467229	0	33
	30	9.0510778	1859	9.9972351	23	9.0538426	1884	0.9461574	30	
28	0	9.0516354	1857	9.9972280	24	9.0544074	1881	0.9455926	0	32
	30	9.0521923	1855	9.9972208	24	9.0549715	1879	0.9450285	30	
29	0	9.0527485	1853	9.9972137	24	9.0555349	1876	0.9444651	0	31
	30	9.0533040	1850	9.9972065	24	9.0560975	1874	0.9439025	30	
30	0	9.0538588		9.9971993		9.0566595		0.9433405	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

83 deg.

6 deg.

°	'	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	'	°
30	0	0.0538538		9.9971993		9.0566595		0.9433405	0	30
30	30	0.0544128	1847	9.9971921	24	9.0572207	1871	0.9427793	30	
31	0	0.0549661	1845	9.9971849	24	9.0577813	1859	0.9422187	0	29
30	30	0.0555187	1843	9.9971776	24	9.0583411	1866	0.9416589	30	
32	0	0.0560706	1841	9.9971704	24	9.0589002	1864	0.9410998	0	28
30	30	0.0566218	1838	9.9971632	24	9.0594586	1862	0.9405414	30	
33	0	0.0571723	1836	9.9971559	24	9.0600164	1860	0.9399836	0	27
30	30	0.0577221	1833	9.9971487	24	9.0605734	1857	0.9394266	30	
34	0	0.0582711	1831	9.9971414	24	9.0611297	1855	0.9388703	0	26
30	30	0.0588195	1829	9.9971341	24	9.0616854	1853	0.9383146	30	
			1827				1850			
35	0	0.0593672		9.9971268		9.0622403		0.9377597	0	25
30	30	0.0599142	1824	9.9971196	24	9.0627946	1849	0.9372054	30	
36	0	0.0604604	1821	9.9971122	25	9.0633482	1846	0.9366518	0	24
30	30	0.0610060	1820	9.9971049	24	9.0639011	1843	0.9360989	30	
37	0	0.0615509	1817	9.9970976	24	9.0644533	1841	0.9355467	0	23
30	30	0.0620951	1815	9.9970903	24	9.0650048	1839	0.9349952	30	
38	0	0.0626386	1812	9.9970829	25	9.0655556	1837	0.9344444	0	22
30	30	0.0631814	1810	9.9970756	24	9.0661058	1835	0.9338942	30	
39	0	0.0637235	1808	9.9970682	25	9.0666553	1832	0.9333447	0	21
30	30	0.0642650	1806	9.9970609	24	9.0672041	1830	0.9327959	30	
			1803				1828			
40	0	0.0648057		9.9970535		9.0677522		0.9322478	0	20
30	30	0.0653458	1801	9.9970461	25	9.0682997	1826	0.9317003	30	
41	0	0.0658852	1799	9.9970387	25	9.0688465	1823	0.9311535	0	19
30	30	0.0664239	1796	9.9970313	25	9.0693926	1821	0.9306074	30	
42	0	0.0669619	1794	9.9970239	25	9.0699381	1819	0.9300619	0	18
30	30	0.0674993	1792	9.9970165	25	9.0704829	1816	0.9295171	30	
43	0	0.0680360	1790	9.9970090	25	9.0710270	1814	0.9289730	0	17
30	30	0.0685720	1787	9.9970016	25	9.0715704	1812	0.9284266	30	
44	0	0.0691074	1785	9.9969941	25	9.0721133	1811	0.9278867	0	16
30	30	0.0696421	1783	9.9969867	25	9.0726554	1807	0.9273446	30	
			1780				1806			
45	0	0.0701761		9.9969792		9.0731969		0.9268031	0	15
30	30	0.0707094	1778	9.9969717	25	9.0737377	1803	0.9262563	30	
46	0	0.0712421	1777	9.9969642	25	9.0742779	1801	0.9257221	0	14
30	30	0.0717741	1774	9.9969567	25	9.0748174	1799	0.9251826	30	
47	0	0.0723055	1772	9.9969492	25	9.0753563	1797	0.9246437	0	13
30	30	0.0728362	1770	9.9969417	25	9.0758945	1795	0.9241055	30	
48	0	0.0733663	1768	9.9969342	25	9.0764321	1793	0.9235679	0	12
30	30	0.0738957	1765	9.9969266	25	9.0769690	1790	0.9230310	30	
49	0	0.0744244	1763	9.9969191	25	9.0775053	1789	0.9224947	0	11
30	30	0.0749525	1761	9.9969115	25	9.0780410	1786	0.9219590	30	
			1759				1784			
50	0	0.0754799		9.9969040		9.0785760		0.9214240	0	10
30	30	0.0760067	1757	9.9968964	25	9.0791103	1782	0.9208877	30	
51	0	0.0765320	1755	9.9968888	26	9.0796441	1780	0.9203559	0	9
30	30	0.0770584	1752	9.9968812	25	9.0801771	1777	0.9198229	30	
52	0	0.0775832	1750	9.9968736	25	9.0807096	1776	0.9192904	0	8
30	30	0.0781074	1748	9.9968660	25	9.0812414	1773	0.9187586	30	
53	0	0.0786310	1746	9.9968584	25	9.0817726	1771	0.9182274	0	7
30	30	0.0791539	1744	9.9968507	26	9.0823032	1769	0.9176968	30	
54	0	0.0796762	1742	9.9968431	25	9.0828331	1767	0.9171669	0	6
30	30	0.0801979	1740	9.9968355	25	9.0833624	1765	0.9166376	30	
			1737				1763			
55	0	0.0807189		9.9968278		9.0838911		0.9161089	0	5
30	30	0.0812393	1735	9.9968201	26	9.0844191	1761	0.9155809	30	
56	0	0.0817590	1733	9.9968125	25	9.0849466	1759	0.9150534	0	4
30	30	0.0822781	1731	9.9968048	25	9.0854734	1756	0.9145266	30	
57	0	0.0827966	1729	9.9967971	25	9.0859996	1754	0.9140004	0	3
30	30	0.0833145	1727	9.9967894	26	9.0865251	1752	0.9134749	30	
58	0	0.0838317	1725	9.9967817	26	9.0870501	1751	0.9129499	0	2
30	30	0.0843484	1723	9.9967739	25	9.0875744	1748	0.9124256	30	
59	0	0.0848643	1720	9.9967662	25	9.0880981	1747	0.9119019	0	1
30	30	0.0853797	1719	9.9967585	26	9.0886213	1745	0.9113787	30	
			1717				1742			
60	0	0.0858945		9.9967507		9.0891438		0.9108562	0	0
°	'	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	'	°

83 deg.



7 deg.

/	''	l. sin.	diff. 10''	l. cosin.	d. 10''	l. tang.	diff. 10''	l. cotan.	/	'
0	0	9.0858945	1714	9.9967507	26	9.0891438	1740	0.9108552	0	60
	30	9.0864086	1712	9.9967429	25	9.0896657	1738	0.9103343	30	
1	0	9.0869221	1711	9.9967352	26	9.0901869	1737	0.9098131	0	59
	30	9.0874350	1709	9.9967274	26	9.0907076	1734	0.9092924	30	
2	0	9.0879473	1706	9.9967196	26	9.0912277	1732	0.9087723	0	58
	30	9.0884590	1704	9.9967118	26	9.0917472	1730	0.9082528	30	
3	0	9.0889700	1703	9.9967040	26	9.0922660	1729	0.9077340	0	57
	30	9.0894805	1700	9.9966962	26	9.0927843	1726	0.9072157	30	
4	0	9.0899903	1699	9.9966884	26	9.0933020	1724	0.9066980	0	56
	30	9.0904996	1696	9.9966805	26	9.0938190	1723	0.9061810	30	
5	0	9.0910082	1694	9.9966727	26	9.0943355	1720	0.9056645	0	55
	30	9.0915162	1692	9.9966648	26	9.0948514	1718	0.9051486	30	
6	0	9.0920237	1690	9.9966570	27	9.0953667	1716	0.9046333	0	54
	30	9.0925305	1688	9.9966491	26	9.0958814	1714	0.9041186	30	
7	0	9.0930367	1686	9.9966412	26	9.0963955	1712	0.9036045	0	53
	30	9.0935423	1684	9.9966333	26	9.0969090	1710	0.9030910	30	
8	0	9.0940474	1682	9.9966254	26	9.0974219	1709	0.9025781	0	52
	30	9.0945518	1680	9.9966175	26	9.0979343	1706	0.9020657	30	
9	0	9.0950556	1678	9.9966096	26	9.0984460	1705	0.9015540	0	51
	30	9.0955589	1676	9.9966017	27	9.0989572	1703	0.9010428	30	
10	0	9.0960615	1674	9.9965937	26	9.0994678	1701	0.9005322	0	50
	30	9.0965636	1672	9.9965858	27	9.0999778	1699	0.9000222	30	
11	0	9.0970651	1670	9.9965778	26	9.1004872	1697	0.8995128	0	49
	30	9.0975659	1669	9.9965699	27	9.1009961	1695	0.8990039	30	
12	0	9.0980662	1667	9.9965619	27	9.1015044	1693	0.8984956	0	48
	30	9.0985660	1664	9.9965539	27	9.1020121	1691	0.8979879	30	
13	0	9.0990651	1662	9.9965459	27	9.1025192	1689	0.8974808	0	47
	30	9.0995636	1662	9.9965379	27	9.1030257	1688	0.8969743	30	
14	0	9.1000616	1661	9.9965299	27	9.1035317	1685	0.8964683	0	46
	30	9.1005590	1657	9.9965219	27	9.1040371	1684	0.8959629	30	
15	0	9.1010558	1655	9.9965138	26	9.1045420	1681	0.8954580	0	45
	30	9.1015520	1653	9.9965058	27	9.1050462	1680	0.8949538	30	
16	0	9.1020477	1651	9.9964977	26	9.1055500	1677	0.8944500	0	44
	30	9.1025428	1649	9.9964897	27	9.1060531	1676	0.8939469	30	
17	0	9.1030373	1647	9.9964816	27	9.1065557	1674	0.8934443	0	43
	30	9.1035312	1646	9.9964735	27	9.1070577	1672	0.8929423	30	
18	0	9.1040246	1643	9.9964655	27	9.1075591	1671	0.8924409	0	42
	30	9.1045174	1641	9.9964574	27	9.1080600	1669	0.8919400	30	
19	0	9.1050096	1640	9.9964493	27	9.1085602	1666	0.8914396	0	41
	30	9.1055013	1638	9.9964411	27	9.1090602	1664	0.8909398	30	
20	0	9.1059924	1636	9.9964330	27	9.1095594	1663	0.8904406	0	40
	30	9.1064829	1634	9.9964249	27	9.1100581	1661	0.8899419	30	
21	0	9.1069729	1632	9.9964167	27	9.1105562	1659	0.8894438	0	39
	30	9.1074623	1630	9.9964086	27	9.1110537	1658	0.8889463	30	
22	0	9.1079512	1628	9.9964004	27	9.1115508	1655	0.8884492	0	38
	30	9.1084395	1626	9.9963923	28	9.1120472	1654	0.8879528	30	
23	0	9.1089272	1625	9.9963841	28	9.1125431	1652	0.8874569	0	37
	30	9.1094144	1623	9.9963759	27	9.1130385	1650	0.8869615	30	
24	0	9.1099010	1621	9.9963677	28	9.1135333	1649	0.8864667	0	36
	30	9.1103871	1619	9.9963595	28	9.1140276	1646	0.8859724	30	
25	0	9.1108726	1617	9.9963513	28	9.1145221	1645	0.8854787	0	35
	30	9.1113576	1615	9.9963430	27	9.1150145	1643	0.8849855	30	
26	0	9.1118420	1613	9.9963348	28	9.1155072	1641	0.8844928	0	34
	30	9.1123259	1611	9.9963265	27	9.1159993	1639	0.8840007	30	
27	0	9.1128092	1610	9.9963183	28	9.1164909	1637	0.8835091	0	33
	30	9.1132920	1608	9.9963100	27	9.1169819	1636	0.8830181	30	
28	0	9.1137742	1606	9.9963018	28	9.1174724	1634	0.8825276	0	32
	30	9.1142559	1604	9.9962935	28	9.1179624	1632	0.8820376	30	
29	0	9.1147370	1603	9.9962852	28	9.1184518	1631	0.8815482	0	31
	30	9.1152176	1601	9.9962769	28	9.1189407	1629	0.8810593	30	
30	0	9.1156977		9.9962686		9.1194291		0.8805709	0	30
	10''				10''		10''			
/	''	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	''	'

82 deg.

7 deg.

/	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	/
30	0	9.1166777	1599	9.9962686	28	9.1194291	1627	0.8805709	0	30
30	1	9.116772	1577	9.9962602	27	9.1199169	1625	0.8800831	0	30
31	0	9.1166562	1595	9.9962519	28	9.1204043	1623	0.8795957	0	29
30	1	9.1171346	1594	9.9962436	28	9.1208910	1622	0.8791050	0	30
32	0	9.1176125	1592	9.9962352	28	9.1213773	1620	0.8786227	0	28
30	1	9.1180899	1590	9.9962269	28	9.1218630	1618	0.8781370	0	30
33	0	9.1185667	1589	9.9962185	28	9.1223482	1617	0.8776518	0	27
30	1	9.1190431	1586	9.9962101	28	9.1228329	1615	0.8771671	0	30
34	0	9.1195188	1585	9.9962017	28	9.1233171	1613	0.8766829	0	26
30	1	9.1199941	1583	9.9961933	28	9.1238007	1611	0.8761993	0	30
35	0	9.1204688	1581	9.9961849	28	9.1242839	1609	0.8757161	0	25
30	1	9.1209430	1579	9.9961765	28	9.1247665	1607	0.8752335	0	30
36	0	9.1214167	1577	9.9961681	28	9.1252486	1605	0.8747514	0	24
30	1	9.1218898	1576	9.9961597	28	9.1257301	1604	0.8742690	0	30
37	0	9.1223624	1574	9.9961512	28	9.1262112	1602	0.8737888	0	23
30	1	9.1228345	1573	9.9961428	28	9.1266917	1601	0.8733083	0	30
38	0	9.1233051	1571	9.9961343	28	9.1271718	1599	0.8728282	0	22
30	1	9.1237771	1569	9.9961258	28	9.1276513	1597	0.8723487	0	30
39	0	9.1242477	1567	9.9961174	29	9.1281303	1596	0.8718657	0	21
30	1	9.1247177	1565	9.9961089	29	9.1286088	1594	0.8713912	0	30
40	0	9.1251872	1564	9.9961004	29	9.1290868	1592	0.8709132	0	20
30	1	9.1256562	1562	9.9960919	29	9.1295643	1590	0.8704357	0	30
41	0	9.1261246	1561	9.9960834	29	9.1300413	1589	0.8699587	0	19
30	1	9.1265926	1559	9.9960748	28	9.1305178	1587	0.8694822	0	30
42	0	9.1270600	1557	9.9960663	29	9.1309937	1586	0.8690063	0	18
30	1	9.1275269	1556	9.9960577	28	9.1314692	1584	0.8685308	0	30
43	0	9.1279934	1553	9.9960492	29	9.1319442	1582	0.8680558	0	17
30	1	9.1284593	1552	9.9960406	29	9.1324186	1581	0.8675814	0	30
44	0	9.1289247	1550	9.9960321	29	9.1328926	1579	0.8671074	0	16
30	1	9.1293895	1548	9.9960235	29	9.1333661	1577	0.8666339	0	30
45	0	9.1298539	1547	9.9960149	29	9.1338391	1575	0.8661609	0	15
30	1	9.1303178	1545	9.9960063	29	9.1343115	1574	0.8656865	0	30
46	0	9.1307812	1543	9.9959977	29	9.1347835	1573	0.8652165	0	14
30	1	9.1312441	1542	9.9959891	29	9.1352550	1571	0.8647450	0	30
47	0	9.1317064	1541	9.9959804	29	9.1357260	1569	0.8642740	0	13
30	1	9.1321683	1539	9.9959718	29	9.1361965	1568	0.8638035	0	30
48	0	9.1326297	1537	9.9959631	29	9.1366665	1566	0.8633335	0	12
30	1	9.1330906	1535	9.9959545	29	9.1371361	1564	0.8628635	0	30
49	0	9.1335509	1534	9.9959458	29	9.1376051	1563	0.8623949	0	11
30	1	9.1340108	1532	9.9959371	29	9.1380737	1560	0.8619263	0	30
50	0	9.1344702	1530	9.9959284	28	9.1385417	1559	0.8614583	0	10
30	1	9.1349291	1528	9.9959198	29	9.1390093	1558	0.8609907	0	30
51	0	9.1353875	1527	9.9959111	30	9.1394764	1556	0.8605236	0	9
30	1	9.1358454	1525	9.9959023	30	9.1399430	1555	0.8600570	0	30
52	0	9.1363028	1523	9.9958936	29	9.1404092	1552	0.8595950	0	8
30	1	9.1367597	1522	9.9958849	29	9.1408748	1551	0.8591252	0	30
53	0	9.1372161	1521	9.9958761	29	9.1413400	1549	0.8586560	0	7
30	1	9.1376721	1518	9.9958674	29	9.1418047	1548	0.8581853	0	30
54	0	9.1381275	1517	9.9958586	29	9.1422689	1546	0.8577111	0	6
30	1	9.1385825	1515	9.9958499	30	9.1427326	1545	0.8572374	0	30
55	0	9.1390370	1513	9.9958411	29	9.1431959	1543	0.8567641	0	5
30	1	9.1394910	1512	9.9958323	29	9.1436587	1541	0.8562913	0	30
56	0	9.1399445	1510	9.9958235	29	9.1441210	1540	0.8558179	0	4
30	1	9.1403975	1509	9.9958147	30	9.1445828	1539	0.8553442	0	30
57	0	9.1408501	1507	9.9958059	30	9.1450442	1537	0.8548708	0	3
30	1	9.1413021	1506	9.9957970	29	9.1455051	1535	0.8543974	0	30
58	0	9.1417537	1504	9.9957882	29	9.1459655	1534	0.8539245	0	2
30	1	9.1422048	1503	9.9957794	30	9.1464255	1532	0.8534515	0	30
59	0	9.1426555	1501	9.9957705	29	9.1468849	1531	0.8529781	0	1
30	1	9.1431066	1500	9.9957616	29	9.1473440	1529	0.8525046	0	30
60	0	9.1435553		9.9957528		9.1478025		0.8520315		0
/	''	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	''	/

82 deg.

8 deg.

/	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	/
0	o	9.1435553	1428	9.9957528	30	9.1478025	1528	0.8521975	o	60
	30	9.1440045	1426	9.9957439	30	9.1482606	1526	0.8517324	o	30
1	o	9.1444532	1425	9.9957350	30	9.1487182	1525	0.8512818	o	59
	30	9.1449015	1423	9.9957261	30	9.1491754	1523	0.8508246	o	30
2	o	9.1453493	1422	9.9957172	30	9.1496321	1521	0.8503679	o	58
	30	9.1457956	1420	9.9957083	30	9.1500884	1519	0.8499116	o	30
3	o	9.1462435	1418	9.9956993	29	9.1505441	1519	0.8494559	o	57
	30	9.1466899	1417	9.9956904	30	9.1509995	1516	0.8490005	o	30
4	o	9.1471358	1415	9.9956815	30	9.1514543	1515	0.8485457	o	56
	30	9.1475812	1414	9.9956725	30	9.1519087	1514	0.8480913	o	30
5	o	9.1480262	1412	9.9956635	30	9.1523627	1512	0.8476373	o	55
	30	9.1484707	1411	9.9956546	30	9.1528162	1510	0.8471838	o	30
6	o	9.1489148	1477	9.9956456	30	9.1532692	1509	0.8467308	o	54
	30	9.1493584	1477	9.9956366	30	9.1537213	1503	0.8462782	o	30
7	o	9.1498015	1476	9.9956276	30	9.1541739	1507	0.8458261	o	53
	30	9.1502442	1474	9.9956186	30	9.1546265	1505	0.8453744	o	30
8	o	9.1506864	1473	9.9956095	30	9.1550769	1503	0.8449231	o	52
	30	9.1511281	1472	9.9956005	30	9.1555276	1502	0.8444724	o	30
9	o	9.1515694	1470	9.9955915	31	9.1559780	1500	0.8440220	o	51
	30	9.1520103	1468	9.9955824	30	9.1564279	1493	0.8435721	o	30
10	o	9.1524507	1467	9.9955734	30	9.1568773	1497	0.8431227	o	50
	30	9.1528906	1465	9.9955643	30	9.1573263	1496	0.8426737	o	30
11	o	9.1533301	1463	9.9955552	30	9.1577748	1495	0.8422252	o	49
	30	9.1537691	1462	9.9955461	30	9.1582230	1492	0.8417770	o	30
12	o	9.1542076	1461	9.9955370	30	9.1586706	1491	0.8413294	o	48
	30	9.1546457	1460	9.9955279	30	9.1591178	1490	0.8408822	o	30
13	o	9.1550834	1458	9.9955188	30	9.1595646	1488	0.8404354	o	47
	30	9.1555206	1457	9.9955097	31	9.1600110	1486	0.8399879	o	30
14	o	9.1559574	1455	9.9955005	31	9.1604569	1485	0.8395431	o	46
	30	9.1563937	1453	9.9954914	31	9.1609023	1484	0.8390977	o	30
15	o	9.1568296	1452	9.9954822	30	9.1613473	1483	0.8386527	o	45
	30	9.1572650	1450	9.9954731	31	9.1617919	1481	0.8382081	o	30
16	o	9.1577000	1447	9.9954639	31	9.1622361	1479	0.8377637	o	44
	30	9.1581345	1447	9.9954547	30	9.1626798	1478	0.8373202	o	30
17	o	9.1585686	1446	9.9954455	30	9.1631231	1476	0.8368769	o	43
	30	9.1590022	1445	9.9954363	30	9.1635659	1475	0.8364341	o	30
18	o	9.1594354	1443	9.9954271	31	9.1640083	1474	0.8359917	o	42
	30	9.1598682	1442	9.9954179	31	9.1644503	1472	0.8355497	o	30
19	o	9.1603005	1440	9.9954087	31	9.1648919	1471	0.8351081	o	41
	30	9.1607324	1439	9.9953994	31	9.1653330	1469	0.8346670	o	30
20	o	9.1611639	1437	9.9953902	31	9.1657737	1468	0.8342263	o	40
	30	9.1615949	1435	9.9953809	31	9.1662139	1467	0.8337851	o	30
21	o	9.1620254	1435	9.9953717	31	9.1666538	1465	0.8333462	o	39
	30	9.1624556	1433	9.9953624	31	9.1670932	1464	0.8329068	o	30
22	o	9.1628853	1431	9.9953531	31	9.1675322	1462	0.8324678	o	38
	30	9.1633146	1429	9.9953438	31	9.1679708	1460	0.8320292	o	30
23	o	9.1637434	1428	9.9953345	31	9.1684089	1459	0.8315911	o	37
	30	9.1641718	1427	9.9953252	31	9.1688466	1458	0.8311534	o	30
24	o	9.1645998	1425	9.9953159	31	9.1692839	1455	0.8307161	o	36
	30	9.1650273	1424	9.9953065	31	9.1697208	1457	0.8302792	o	30
25	o	9.1654544	1423	9.9952972	31	9.1701572	1454	0.8298428	o	35
	30	9.1658811	1421	9.9952878	31	9.1705933	1452	0.8294067	o	30
26	o	9.1663074	1419	9.9952785	31	9.1710289	1451	0.8289711	o	34
	30	9.1667332	1418	9.9952691	31	9.1714641	1449	0.8285359	o	30
27	o	9.1671586	1417	9.9952597	31	9.1718983	1448	0.8281011	o	33
	30	9.1675836	1415	9.9952503	31	9.1723332	1447	0.8276668	o	30
28	o	9.1680081	1414	9.9952409	31	9.1727672	1445	0.8272328	o	32
	30	9.1684322	1413	9.9952315	31	9.1732007	1444	0.8267993	o	30
29	o	9.1688559	1412	9.9952221	31	9.1736338	1443	0.8263662	o	31
	30	9.1692792	1410	9.9952127	32	9.1740665	1442	0.8259335	o	30
30	o	9.1697021		9.9952033		9.1744983		0.8255012	o	30
			10''		10''		10''			
/	''	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	''	/

81 deg.

8 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.1697021	1408	9.9952033	31	9.1744988	1440	0.8255012	0	30
30	30	9.1701245	1407	9.9951938	32	9.1749307	1439	0.8250693	0	
31	0	9.1705465	1406	9.9951844	32	9.1753622	1437	0.8246378	0	29
30	30	9.1709682	1404	9.9951749	32	9.1757933	1436	0.8242057	0	
32	0	9.1713893	1403	9.9951654	32	9.1762239	1435	0.8237761	0	28
30	30	9.1718101	1402	9.9951559	31	9.1766542	1433	0.8233458	0	
33	0	9.1722305	1400	9.9951464	32	9.1770840	1432	0.8229160	0	27
30	30	9.1726504	1399	9.9951369	31	9.1775134	1431	0.8224866	0	
34	0	9.1730699	1398	9.9951274	32	9.1779425	1429	0.8220575	0	26
30	30	9.1734890	1396	9.9951179	32	9.1783711	1428	0.8216289	0	
35	0	9.1739077	1395	9.9951084	32	9.1787993	1427	0.8212007	0	25
30	30	9.1743266	1393	9.9950988	31	9.1792271	1426	0.8207729	0	
36	0	9.1747439	1392	9.9950893	32	9.1796546	1423	0.8203454	0	24
30	30	9.1751613	1391	9.9950797	31	9.1800816	1422	0.8199184	0	
37	0	9.1755784	1389	9.9950702	32	9.1805082	1421	0.8194918	0	23
30	30	9.1759950	1388	9.9950606	32	9.1809344	1420	0.8190656	0	
38	0	9.1764112	1387	9.9950510	32	9.1813602	1419	0.8186398	0	22
30	30	9.1768270	1386	9.9950414	32	9.1817856	1417	0.8182144	0	
39	0	9.1772425	1383	9.9950318	32	9.1822106	1416	0.8177894	0	21
30	30	9.1776575	1382	9.9950222	32	9.1826353	1414	0.8173647	0	
40	0	9.1780721	1381	9.9950126	32	9.1830595	1413	0.8169405	0	20
30	30	9.1784863	1380	9.9950029	32	9.1834833	1411	0.8165167	0	
41	0	9.1789001	1378	9.9949933	32	9.1839068	1410	0.8160932	0	19
30	30	9.1793135	1377	9.9949836	32	9.1843298	1409	0.8156702	0	
42	0	9.1797265	1376	9.9949740	32	9.1847525	1408	0.8152475	0	18
30	30	9.1801390	1375	9.9949643	32	9.1851747	1407	0.8148253	0	
43	0	9.1805512	1373	9.9949546	32	9.1855966	1405	0.8144034	0	17
30	30	9.1809630	1372	9.9949449	32	9.1860181	1404	0.8139819	0	
44	0	9.1813744	1370	9.9949352	32	9.1864392	1403	0.8135608	0	16
30	30	9.1817854	1369	9.9949255	32	9.1868599	1401	0.8131401	0	
45	0	9.1821960	1368	9.9949158	32	9.1872802	1400	0.8127198	0	15
30	30	9.1826062	1365	9.9949061	32	9.1877001	1399	0.8122999	0	
46	0	9.1830160	1365	9.9948964	33	9.1881196	1398	0.8118804	0	14
30	30	9.1834254	1364	9.9948866	33	9.1885388	1396	0.8114612	0	
47	0	9.1838344	1362	9.9948769	33	9.1889575	1395	0.8110425	0	13
30	30	9.1842430	1361	9.9948671	33	9.1893759	1394	0.8106241	0	
48	0	9.1846512	1360	9.9948573	33	9.1897939	1392	0.8102051	0	12
30	30	9.1850591	1359	9.9948475	33	9.1902115	1391	0.8097885	0	
49	0	9.1854665	1357	9.9948377	33	9.1906287	1390	0.8093713	0	11
30	30	9.1858735	1356	9.9948279	33	9.1910456	1389	0.8089544	0	
50	0	9.1862802	1355	9.9948181	32	9.1914621	1387	0.8085379	0	10
30	30	9.1866865	1353	9.9948083	33	9.1918781	1387	0.8081219	0	
51	0	9.1870923	1352	9.9947985	32	9.1922939	1384	0.8077061	0	9
30	30	9.1874978	1351	9.9947886	32	9.1927092	1383	0.8072908	0	
52	0	9.1879029	1350	9.9947788	33	9.1931241	1383	0.8068759	0	8
30	30	9.1883076	1349	9.9947689	33	9.1935387	1381	0.8064613	0	
53	0	9.1887120	1347	9.9947591	33	9.1939529	1380	0.8060471	0	7
30	30	9.1891159	1346	9.9947492	33	9.1943667	1379	0.8056333	0	
54	0	9.1895195	1344	9.9947393	33	9.1947802	1377	0.8052198	0	6
30	30	9.1899226	1343	9.9947294	33	9.1951932	1376	0.8048068	0	
55	0	9.1903254	1342	9.9947195	33	9.1956059	1375	0.8043941	0	5
30	30	9.1907278	1341	9.9947096	33	9.1960183	1373	0.8039817	0	
56	0	9.1911299	1339	9.9946997	33	9.1964302	1372	0.8035698	0	4
30	30	9.1915315	1338	9.9946897	33	9.1968418	1371	0.8031582	0	
57	0	9.1919328	1337	9.9946798	33	9.1972530	1370	0.8027470	0	3
30	30	9.1923337	1335	9.9946698	33	9.1976638	1369	0.8023362	0	
58	0	9.1927342	1334	9.9946599	34	9.1980743	1368	0.8019257	0	2
30	30	9.1931343	1333	9.9946499	33	9.1984844	1366	0.8015156	0	
59	0	9.1935341	1332	9.9946399	33	9.1988941	1365	0.8011059	0	1
30	30	9.1939334	1331	9.9946299	33	9.1993035	1364	0.8006965	0	
60	0	9.1943324	10"	9.9946199	10"	9.1997125	10"	0.8002875	0	0
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

81 deg.



9 deg.

'	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
0	0	9.1943324		9.9946199		9.1997125		0.8002875	0	60
	30	9.1947311	1330	9.9946099	33	9.2001211	1363	0.7998789	30	
1	0	9.1951293	1328	9.9945999	33	9.2005294	1362	0.7994706	0	59
	30	9.1955272	1327	9.9945899	33	9.2009373	1360	0.7990627	30	
2	0	9.1959247	1325	9.9945798	34	9.2013449	1359	0.7986551	0	58
	30	9.1963218	1324	9.9945698	33	9.2017520	1357	0.7982480	30	
3	0	9.1967186	1323	9.9945597	34	9.2021588	1357	0.7978412	0	57
	30	9.1971150	1321	9.9945497	33	9.2025653	1356	0.79743-7	30	
4	0	9.1975110	1320	9.9945396	34	9.2029714	1354	0.7970286	0	56
	30	9.1979066	1319	9.9945295	34	9.2033771	1353	0.7966223	30	
5	0	9.1983019	1318	9.9945194	34	9.2037825	1352	0.7962175	0	55
	30	9.1986968	1317	9.9945093	34	9.2041875	1350	0.7958125	30	
6	0	9.1990913	1316	9.9944992	34	9.2045922	1349	0.7954078	0	54
	30	9.1994855	1315	9.9944891	34	9.2049964	1348	0.7950036	30	
7	0	9.1998793	1313	9.9944789	34	9.2054004	1347	0.7945996	0	53
	30	9.2002728	1312	9.9944688	33	9.2058040	1346	0.7941960	30	
8	0	9.2006658	1310	9.9944587	34	9.2062072	1344	0.7937928	0	52
	30	9.2010586	1308	9.9944485	34	9.2066101	1343	0.7933899	30	
9	0	9.2014509	1308	9.9944383	34	9.2070126	1342	0.7929874	0	51
	30	9.2018429	1307	9.9944281	34	9.2074147	1341	0.7925853	30	
10	0	9.2022345	1306	9.9944180	34	9.2078165	1340	0.7921835	0	50
	30	9.2026258	1305	9.9944078	34	9.2082180	1339	0.7917820	30	
11	0	9.2030167	1303	9.9943975	34	9.2086191	1337	0.7913809	0	49
	30	9.2034072	1302	9.9943873	34	9.2090199	1336	0.7909801	30	
12	0	9.2037974	1301	9.9943771	34	9.2094203	1335	0.7905797	0	48
	30	9.2041872	1299	9.9943669	34	9.2098203	1333	0.7901797	30	
13	0	9.2045765	1298	9.9943566	34	9.2102200	1333	0.7897800	0	47
	30	9.2049657	1293	9.9943464	34	9.2106194	1332	0.7893806	30	
14	0	9.2053545	1297	9.9943361	34	9.2110184	1330	0.7889816	0	46
	30	9.2057429	1295	9.9943258	34	9.2114170	1329	0.7885830	30	
15	0	9.2061303	1293	9.9943156	34	9.2118153	1328	0.7881847	0	45
	30	9.2065186	1291	9.9943053	35	9.2122133	1326	0.7877867	30	
16	0	9.2069059	1290	9.9942950	35	9.2126109	1325	0.7873881	0	44
	30	9.2072929	1289	9.9942846	35	9.2130082	1324	0.7869891	30	
17	0	9.2076795	1288	9.9942743	34	9.2134051	1323	0.7865904	0	43
	30	9.2080657	1287	9.9942640	34	9.2138017	1321	0.7861923	30	
18	0	9.2084516	1287	9.9942537	35	9.2141980	1320	0.7857940	0	42
	30	9.2088372	1284	9.9942433	35	9.2145939	1319	0.7853961	30	
19	0	9.2092224	1283	9.9942330	35	9.2149894	1318	0.7850006	0	41
	30	9.2096072	1282	9.9942226	35	9.2153846	1317	0.7846054	30	
20	0	9.2099917	1281	9.9942122	35	9.2157795	1316	0.7842205	0	40
	30	9.2103755	1280	9.9942018	34	9.2161741	1314	0.7838259	30	
21	0	9.2107597	1278	9.9941914	34	9.2165683	1313	0.7834317	0	39
	30	9.2111431	1273	9.9941810	34	9.2169621	1311	0.7830379	30	
22	0	9.2115263	1276	9.9941706	35	9.2173556	1311	0.7826444	0	38
	30	9.2119090	1275	9.9941602	35	9.2177488	1310	0.7822512	30	
23	0	9.2122914	1274	9.9941498	35	9.2181417	1309	0.7818583	0	37
	30	9.2126735	1273	9.9941393	35	9.2185342	1308	0.7814658	30	
24	0	9.2130552	1272	9.9941289	35	9.2189264	1305	0.7810736	0	36
	30	9.2134366	1271	9.9941184	35	9.2193182	1306	0.7806818	30	
25	0	9.2138176	1270	9.9941079	35	9.2197097	1304	0.7802903	0	35
	30	9.2141983	1269	9.9940974	35	9.2201009	1303	0.7798991	30	
26	0	9.2145787	1267	9.9940870	35	9.2204917	1302	0.7795083	0	34
	30	9.2149587	1266	9.9940765	35	9.2208822	1301	0.7791178	30	
27	0	9.2153384	1264	9.9940659	35	9.2212724	1300	0.7787276	0	33
	30	9.2157177	1264	9.9940554	35	9.2216623	1298	0.7783377	30	
28	0	9.2160965	1262	9.9940449	35	9.2220518	1297	0.7779482	0	32
	30	9.2164753	1262	9.9940344	36	9.2224410	1296	0.7775590	30	
29	0	9.2168535	1261	9.9940238	35	9.2228303	1295	0.7771702	0	31
	30	9.2172316	1259	9.9940133	36	9.2232183	1295	0.7767817	30	
30	0	9.2176092		9.9940027		9.2236065		0.7763935	0	30
'	"	l. cosin.	diff. 10"	l. sin.	d. 10"	l. cotan.	diff. 10"	l. tang.	"	'

80 deg.

9 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.2176092		9.9940027	35	9.2236065		0.7763935	0	30
	30	9.2179865	1258	9.9939921	35	9.2239944	1294	0.7750056	30	
31	0	9.2183635	1257	9.9939815	35	9.2243819	1292	0.7756181	0	29
	30	9.2187401	1256	9.9939709	35	9.2247692	1292	0.7752308	30	
32	0	9.2191164	1255	9.9939603	35	9.2251561	1290	0.7748439	0	28
	30	9.2194923	1253	9.9939497	35	9.2255426	1288	0.7744574	30	
33	0	9.2198680	1253	9.9939391	35	9.2259289	1288	0.7740711	0	27
	30	9.2202432	1251	9.9939285	36	9.2263148	1286	0.7736852	30	
34	0	9.2206182	1251	9.9939178	35	9.2267004	1285	0.7732996	0	26
	30	9.2209928	1249	9.9939072	36	9.2270856	1284	0.7729144	30	
35	0	9.2213671		9.9938965	35	9.2274706		0.7725294	0	25
	30	9.2217410	1247	9.9938858	35	9.2278552	1282	0.7721448	30	
36	0	9.2221147	1246	9.9938752	36	9.2282395	1281	0.7717605	0	24
	30	9.2224880	1244	9.9938645	36	9.2286235	1280	0.7713765	30	
37	0	9.2228609	1243	9.9938538	36	9.2290071	1279	0.7709929	0	23
	30	9.2232336	1243	9.9938431	35	9.2293905	1279	0.7706095	30	
38	0	9.2236069	1241	9.9938324	36	9.2297735	1277	0.7702265	0	22
	30	9.2239778	1240	9.9938216	36	9.2301562	1276	0.7698438	30	
39	0	9.2243495	1240	9.9938109	35	9.2305386	1275	0.7694614	0	21
	30	9.2247208	1238	9.9938002	36	9.2309207	1274	0.7690793	30	
40	0	9.2250918	1237		36		1272			
	30	9.2254625	1236	9.9937894	36	9.2313024	1272	0.7686976	0	20
41	0	9.2258328	1235	9.9937786	36	9.2316838	1271	0.7683162	30	
	30	9.2262028	1234	9.9937679	36	9.2320650	1269	0.7679350	0	19
42	0	9.2265725	1233	9.9937571	36	9.2324458	1268	0.7675542	30	
	30	9.2269419	1232	9.9937463	36	9.2328262	1268	0.7671738	0	18
43	0	9.2273110	1231	9.9937355	36	9.2332064	1267	0.7667936	30	
	30	9.2276797	1229	9.9937247	36	9.2335863	1267	0.7664137	0	17
44	0	9.2280481	1228	9.9937139	36	9.2339658	1265	0.7660342	30	
	30	9.2284162	1227	9.9937030	37	9.2343451	1265	0.7656549	0	16
45	0	9.2287839	1226	9.9936922	36	9.2347240	1263	0.7652760	30	
46	0	9.2291514	1225	9.9936813	36	9.2351026		0.7648974	0	15
	30	9.2295185	1224	9.9936705	36	9.2354809	1261	0.7645191	30	
47	0	9.2298853	1224	9.9936596	36	9.2358589	1260	0.7641411	0	14
	30	9.2302518	1223	9.9936487	36	9.2362366	1259	0.7637634	30	
48	0	9.2306179	1222	9.9936378	36	9.2366139	1258	0.7633861	0	13
	30	9.2309838	1221	9.9936269	36	9.2369910	1258	0.7630090	30	
49	0	9.2313493	1220	9.9936160	36	9.2373618	1256	0.7626322	0	12
	30	9.2317145	1219	9.9936051	36	9.2377442	1255	0.7622558	30	
50	0	9.2320794	1218	9.9935942	36	9.2381203	1254	0.7618797	0	11
	30	9.2324440	1217	9.9935833	37	9.2384962	1254	0.7615038	30	
51	0	9.2328083	1216		37		1252			
	30	9.2331722	1215	9.9935723	36	9.2388717	1251	0.7611283	0	10
52	0	9.2335359	1213	9.9935614	37	9.2392469	1250	0.7607531	30	
	30	9.2338992	1213	9.9935504	37	9.2396218	1249	0.7603782	0	9
53	0	9.2342622	1211	9.9935394	36	9.2399964	1249	0.7600036	30	
	30	9.2346249	1210	9.9935285	37	9.2403708	1247	0.7596292	0	8
54	0	9.2349873	1209	9.9935175	37	9.2407448		0.7592552	30	
	30	9.2353494	1207	9.9935065	37	9.2411185	1246	0.7588815	0	7
55	0	9.2357112	1206	9.9934955	37	9.2414919	1245	0.7585081	30	
	30	9.2360726	1205	9.9934844	36	9.2418650	1244	0.7581350	0	6
56	0	9.2364338	1204	9.9934734	37	9.2422378	1243	0.7577622	30	
	30	9.2367946	1203	9.9934624	37	9.2426103	1242	0.7573897	0	5
57	0	9.2371551	1202	9.9934513	37	9.2429824	1240	0.7570176	30	
	30	9.2375153	1201	9.9934403	37	9.2433543	1239	0.7566457	0	4
58	0	9.2378753	1201	9.9934292	37	9.2437259	1238	0.7562741	30	
	30	9.2382349	1199	9.9934181	37	9.2440972	1237	0.7559028	0	3
59	0	9.2385942	1198	9.9934070	37	9.2444682		0.7555318	30	
	30	9.2389532	1197	9.9933959	37	9.2448389	1236	0.7551611	0	2
60	0	9.2393118	1196	9.9933848	37	9.2452093	1235	0.7547907	30	
	30	9.2396702	1195	9.9933737	37	9.2455794	1234	0.7544206	0	1
				9.9933626	37	9.2459493	1233	0.7540507	30	
				9.9933515		9.2463188	1232	0.7536812	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

80 deg.

10 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.2396702	1194	9.9933515	38	9.2463188	1231	9.7536812	0	60
	30	9.2400283	1193	9.9933403	37	9.2466880	1230	0.7533120	30	
1	0	9.2403861	1192	9.9933292	38	9.2470559	1229	0.7529431	0	59
	30	9.2407436	1190	9.9933180	37	9.2474255	1229	0.7525745	30	
2	0	9.2411007	1190	9.9933068	37	9.2477939	1227	0.7522061	0	58
	30	9.2414576	1189	9.9932957	38	9.2481619	1226	0.7518381	30	
3	0	9.2418141	1188	9.9932845	38	9.2485297	1225	0.7514703	0	57
	30	9.2421704	1187	9.9932733	38	9.2488971	1225	0.7511029	30	
4	0	9.2425264	1185	9.9932621	38	9.2492643	1223	0.7507357	0	56
	30	9.2428820	1185	9.9932508	37	9.2496312	1222	0.7503688	30	
5	0	9.2432374	1184	9.9932396	37	9.2499978	1221	0.7500022	0	55
	30	9.2435924	1183	9.9932284	38	9.2503641	1220	0.7496359	30	
6	0	9.2439472	1182	9.9932171	37	9.2507301	1219	0.7492699	0	54
	30	9.2443017	1180	9.9932059	38	9.2510958	1218	0.7489042	30	
7	0	9.2446558	1180	9.9931946	38	9.2514612	1218	0.7485383	0	53
	30	9.2450097	1179	9.9931833	37	9.2518264	1216	0.7481736	30	
8	0	9.2453632	1178	9.9931720	37	9.2521912	1216	0.7478088	0	52
	30	9.2457165	1177	9.9931607	37	9.2525558	1214	0.7474442	30	
9	0	9.2460695	1176	9.9931494	37	9.2529200	1214	0.7470800	0	51
	30	9.2464222	1175	9.9931381	37	9.2532840	1213	0.7467160	30	
10	0	9.2467746	1173	9.9931268	38	9.2536477	1212	0.7463523	0	50
	30	9.2471266	1173	9.9931155	38	9.2540112	1210	0.7459883	30	
11	0	9.2474784	1172	9.9931041	37	9.2543743	1210	0.7456257	0	49
	30	9.2478299	1171	9.9930928	38	9.2547371	1209	0.7452629	30	
12	0	9.2481811	1170	9.9930814	38	9.2550997	1208	0.7449003	0	48
	30	9.2485321	1169	9.9930701	38	9.2554620	1207	0.7445380	30	
13	0	9.2488827	1168	9.9930587	38	9.2558240	1205	0.7441760	0	47
	30	9.2492330	1167	9.9930473	38	9.2561857	1205	0.7438143	30	
14	0	9.2495830	1167	9.9930359	38	9.2565472	1204	0.7434528	0	46
	30	9.2499328	1165	9.9930245	38	9.2569083	1203	0.7430917	30	
15	0	9.2502822	1165	9.9930131	38	9.2572692	1202	0.7427303	0	45
	30	9.2506314	1163	9.9930016	38	9.2576298	1201	0.7423692	30	
16	0	9.2509803	1162	9.9929902	38	9.2579901	1200	0.7420099	0	44
	30	9.2513289	1161	9.9929788	39	9.2583501	1200	0.7416499	30	
17	0	9.2516772	1160	9.9929673	38	9.2587099	1198	0.7412901	0	43
	30	9.2520252	1159	9.9929558	38	9.2590693	1198	0.7409307	30	
18	0	9.2523729	1158	9.9929444	39	9.2594285	1197	0.7405715	0	42
	30	9.2527203	1158	9.9929329	39	9.2597875	1195	0.7402125	30	
19	0	9.2530675	1156	9.9929214	39	9.2601461	1195	0.7398539	0	41
	30	9.2534143	1156	9.9929099	39	9.2605045	1194	0.7394953	30	
20	0	9.2537609	1155	9.9928984	39	9.2608625	1193	0.7391375	0	40
	30	9.2541072	1154	9.9928868	38	9.2612204	1192	0.7387796	30	
21	0	9.2544532	1153	9.9928753	38	9.2615779	1191	0.7384218	0	39
	30	9.2547989	1153	9.9928638	39	9.2619352	1190	0.7380648	30	
22	0	9.2551444	1150	9.9928522	38	9.2622921	1190	0.7377079	0	38
	30	9.2554895	1150	9.9928407	39	9.2626489	1188	0.7373511	30	
23	0	9.2558344	1149	9.9928291	39	9.2630053	1187	0.7369947	0	37
	30	9.2561790	1148	9.9928175	39	9.2633615	1186	0.7366385	30	
24	0	9.2565233	1147	9.9928059	38	9.2637173	1186	0.7362827	0	36
	30	9.2568673	1146	9.9927943	38	9.2640730	1184	0.7359270	30	
25	0	9.2572110	1145	9.9927827	39	9.2644283	1184	0.7355717	0	35
	30	9.2575545	1144	9.9927711	39	9.2647834	1183	0.7352166	30	
26	0	9.2578977	1143	9.9927595	39	9.2651382	1182	0.7348618	0	34
	30	9.2582406	1142	9.9927478	38	9.2654927	1181	0.7345073	30	
27	0	9.2585832	1141	9.9927362	39	9.2658470	1180	0.7341530	0	33
	30	9.2589255	1141	9.9927245	38	9.2662010	1179	0.7337990	30	
28	0	9.2592676	1139	9.9927129	39	9.2665547	1179	0.7334453	0	32
	30	9.2596094	1138	9.9927012	39	9.2669082	1177	0.7330918	30	
29	0	9.2599509	1137	9.9926895	39	9.2672613	1177	0.7327387	0	31
	30	9.2602921	1137	9.9926778	39	9.2676143	1175	0.7323857	30	
30	0	9.2606330		9.9926661		9.2679669		0.7320331	0	30
			10"		10"		10"			
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

79 deg.  
18\*

10 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.2606330		9.9926661	39	9.2679669	1175	0.7320331	0	30
	30	9.2609737	1136	9.9926544	39	9.2683193	1174	0.7316807	30	
31	0	9.2613141	1135	9.9926427	39	9.2686714	1173	0.7313286	0	29
	30	9.2616542	1134	9.9926310	39	9.2690233	1172	0.7309767	30	
32	0	9.2619941	1133	9.9926192	40	9.2693749	1171	0.7306251	0	28
	30	9.2623336	1132	9.9926075	40	9.2697262	1170	0.7302738	30	
33	0	9.2626729	1131	9.9925957	39	9.2700772	1170	0.7299228	0	27
	30	9.2630120	1129	9.9925839	39	9.2704280	1169	0.7295720	30	
34	0	9.2633507	1128	9.9925722	40	9.2707786	1167	0.7292214	0	26
	30	9.2636892	1128	9.9925604	40	9.2711288	1167	0.7288712	30	
35	0	9.2640274	1127	9.9925486	40	9.2714788	1166	0.7285212	0	25
	30	9.2643653	1126	9.9925368	40	9.2718286	1165	0.7281714	30	
36	0	9.2647030	1125	9.9925250	40	9.2721780	1165	0.7278220	0	24
	30	9.2650404	1124	9.9925131	39	9.2725272	1164	0.7274728	30	
37	0	9.2653775	1123	9.9925013	40	9.2728762	1162	0.7271238	0	23
	30	9.2657143	1122	9.9924894	39	9.2732249	1162	0.7267751	30	
38	0	9.2660509	1121	9.9924776	40	9.2735733	1161	0.7264267	0	22
	30	9.2663872	1120	9.9924657	39	9.2739215	1160	0.7260785	30	
39	0	9.2667232	1120	9.9924539	40	9.2742694	1159	0.7257306	0	21
	30	9.2670590	1119	9.9924420	40	9.2746170	1159	0.7253830	30	
40	0	9.2673945	1118	9.9924301	40	9.2749644	1158	0.7250356	0	20
	30	9.2677297	1117	9.9924182	40	9.2753116	1156	0.7246884	30	
41	0	9.2680647	1116	9.9924063	40	9.2756584	1156	0.7243416	0	19
	30	9.2683994	1115	9.9923943	39	9.2760050	1155	0.7239950	30	
42	0	9.2687338	1114	9.9923824	40	9.2763514	1154	0.7236486	0	18
	30	9.2690680	1113	9.9923705	40	9.2766975	1153	0.7233025	30	
43	0	9.2694019	1112	9.9923585	40	9.2770434	1152	0.7229566	0	17
	30	9.2697355	1112	9.9923466	40	9.2773889	1152	0.7226111	30	
44	0	9.2700689	1110	9.9923346	40	9.2777343	1150	0.7222657	0	16
	30	9.2704020	1109	9.9923226	40	9.2780793	1150	0.7219207	30	
45	0	9.2707348	1109	9.9923106	40	9.2784242	1149	0.7215758	0	15
	30	9.2710674	1108	9.9922986	40	9.2787637	1148	0.7212313	30	
46	0	9.2713997	1107	9.9922866	40	9.2791131	1147	0.7208869	0	14
	30	9.2717317	1105	9.9922746	40	9.2794571	1146	0.7205429	30	
47	0	9.2720635	1105	9.9922626	40	9.2798009	1146	0.7201991	0	13
	30	9.2723950	1105	9.9922506	41	9.2801445	1144	0.7198555	30	
48	0	9.2727263	1103	9.9922385	40	9.2804878	1144	0.7195122	0	12
	30	9.2730573	1102	9.9922265	41	9.2808308	1144	0.7191692	30	
49	0	9.2733880	1102	9.9922144	40	9.2811736	1143	0.7188264	0	11
	30	9.2737185	1101	9.9922023	40	9.2815162	1142	0.7184838	30	
50	0	9.2740487	1100	9.9921902	40	9.2818585	1140	0.7181415	0	10
	30	9.2743786	1100	9.9921781	40	9.2822005	1140	0.7177995	30	
51	0	9.2747083	1099	9.9921660	40	9.2825423	1139	0.7174577	0	9
	30	9.2750373	1097	9.9921539	40	9.2828838	1138	0.7171162	30	
52	0	9.2753669	1097	9.9921418	40	9.2832251	1137	0.7167749	0	8
	30	9.2756959	1095	9.9921297	41	9.2835662	1136	0.7164338	30	
53	0	9.2760245	1095	9.9921175	40	9.2839070	1135	0.7160930	0	7
	30	9.2763529	1094	9.9921054	41	9.2842475	1135	0.7157525	30	
54	0	9.2766811	1093	9.9920932	40	9.2845878	1134	0.7154122	0	6
	30	9.2770089	1093	9.9920811	41	9.2849279	1133	0.7150721	30	
55	0	9.2773366	1091	9.9920689	41	9.2852677	1132	0.7147323	0	5
	30	9.2776646	1090	9.9920567	41	9.2856073	1131	0.7143927	30	
56	0	9.2779911	1090	9.9920445	41	9.2859466	1130	0.7140534	0	4
	30	9.2783179	1089	9.9920323	41	9.2862856	1130	0.7137144	30	
57	0	9.2786445	1088	9.9920201	41	9.2866245	1128	0.7133755	0	3
	30	9.2789709	1087	9.9920078	40	9.2869630	1128	0.7130370	30	
58	0	9.2792970	1086	9.9919956	41	9.2873014	1127	0.7126986	0	2
	30	9.2796232	1085	9.9919834	41	9.2876395	1126	0.7123605	30	
59	0	9.2799484	1085	9.9919711	41	9.2879773	1126	0.7120227	0	1
	30	9.2802738	1083	9.9919588	40	9.2883149	1125	0.7116851	30	
60	c	9.2805988		9.9919465		9.2886523		0.7113477	0	0
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

79 deg.



11 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.2805983	1084	9.9919465	41	9.2886523	1124	0.7113477	0	60
	30	9.2809237	1082	9.9919343	41	9.2887874	1123	0.7110106	30	
1	0	9.2812483	1081	9.9919220	41	9.2890263	1122	0.7106737	0	59
	30	9.2815725	1080	9.9919097	41	9.2892629	1121	0.7103371	30	
2	0	9.2818967	1079	9.9918974	41	9.2895000	1121	0.7100007	0	58
	30	9.2822205	1079	9.9918851	41	9.2897364	1120	0.7096646	30	
3	0	9.2825441	1078	9.9918727	41	9.2899713	1119	0.7093287	0	57
	30	9.2828674	1078	9.9918604	41	9.2902070	1118	0.7089930	30	
4	0	9.2831905	1077	9.9918480	41	9.2904424	1118	0.7086576	0	56
	30	9.2835133	1076	9.9918357	41	9.2906776	1117	0.7083224	30	
5	0	9.2838359	1074	9.9918233	41	9.2909126	1116	0.7079874	0	55
	30	9.2841582	1074	9.9918109	41	9.2911473	1115	0.7076527	30	
6	0	9.2844803	1073	9.9917985	42	9.2913817	1115	0.7073183	0	54
	30	9.2848021	1072	9.9917862	42	9.2916160	1113	0.7069840	30	
7	0	9.2851237	1071	9.9917737	41	9.2918500	1112	0.7066500	0	53
	30	9.2854450	1071	9.9917613	41	9.2920837	1112	0.7063163	30	
8	0	9.2857661	1070	9.9917489	41	9.2923172	1112	0.7059828	0	52
	30	9.2860870	1069	9.9917365	42	9.2925505	1111	0.7056495	30	
9	0	9.2864076	1068	9.9917240	41	9.2927836	1109	0.7053164	0	51
	30	9.2867279	1068	9.9917116	42	9.2930164	1109	0.7049836	30	
10	0	9.2870480	1067	9.9916991	42	9.2932487	1108	0.7046511	0	50
	30	9.2873677	1066	9.9916866	41	9.2934813	1107	0.7043187	30	
11	0	9.2876875	1065	9.9916741	41	9.2937134	1106	0.7039866	0	49
	30	9.2880069	1064	9.9916617	42	9.2939453	1105	0.7036547	30	
12	0	9.2883260	1064	9.9916492	42	9.2941769	1105	0.7033231	0	48
	30	9.2886449	1063	9.9916366	41	9.2944083	1104	0.7029917	30	
13	0	9.2889636	1061	9.9916241	42	9.2946395	1103	0.7026605	0	47
	30	9.2892820	1061	9.9916116	42	9.2948704	1102	0.7023296	30	
14	0	9.2896001	1060	9.9915990	41	9.2951011	1102	0.7019989	0	46
	30	9.2899181	1059	9.9915865	42	9.2953316	1101	0.7016684	30	
15	0	9.2902357	1059	9.9915739	41	9.2955618	1100	0.7013382	0	45
	30	9.2905532	1057	9.9915614	42	9.2957918	1099	0.7010082	30	
16	0	9.2908704	1056	9.9915488	42	9.2960215	1098	0.7006784	0	44
	30	9.2911873	1056	9.9915362	42	9.2962511	1098	0.7003487	30	
17	0	9.2915040	1055	9.9915236	42	9.2964804	1097	0.7000196	0	43
	30	9.2918225	1054	9.9915110	42	9.2967095	1096	0.6996905	30	
18	0	9.2921367	1054	9.9914984	42	9.2969383	1096	0.6993617	0	42
	30	9.2924527	1053	9.9914858	43	9.2971670	1094	0.6990330	30	
19	0	9.2927685	1052	9.9914731	42	9.2973954	1094	0.6987046	0	41
	30	9.2930840	1051	9.9914605	42	9.2976235	1093	0.6983765	30	
20	0	9.2933993	1050	9.9914478	42	9.2978514	1093	0.6980486	0	40
	30	9.2937143	1050	9.9914352	43	9.2980791	1092	0.6977209	30	
21	0	9.2940291	1049	9.9914225	42	9.2983066	1091	0.6973934	0	39
	30	9.2943437	1048	9.9914098	42	9.2985339	1090	0.6970661	30	
22	0	9.2946580	1047	9.9913971	42	9.2987609	1090	0.6967391	0	38
	30	9.2949721	1046	9.9913844	42	9.2989877	1089	0.6964123	30	
23	0	9.2952859	1045	9.9913717	43	9.2992143	1088	0.6960857	0	37
	30	9.2955996	1045	9.9913590	43	9.2994406	1088	0.6957594	30	
24	0	9.2959129	1045	9.9913462	42	9.2996667	1087	0.6954333	0	36
	30	9.2962261	1043	9.9913335	43	9.2998926	1086	0.6951074	30	
25	0	9.2965390	1043	9.9913207	42	9.3001183	1085	0.6947817	0	35
	30	9.2968517	1042	9.9913080	43	9.3003437	1084	0.6944563	30	
26	0	9.2971641	1041	9.9912952	42	9.3005689	1084	0.6941311	0	34
	30	9.2974763	1041	9.9912824	42	9.3007939	1083	0.6938061	30	
27	0	9.2977883	1040	9.9912696	42	9.3010187	1082	0.6934813	0	33
	30	9.2981001	1038	9.9912568	42	9.3012432	1082	0.6931568	30	
28	0	9.2984116	1035	9.9912440	43	9.3014675	1081	0.6928325	0	32
	30	9.2987229	1037	9.9912312	43	9.3016916	1080	0.6925084	30	
29	0	9.2990339	1036	9.9912184	43	9.3019155	1079	0.6921845	0	31
	30	9.2993447	1035	9.9912056	43	9.3021392	1078	0.6918608	30	
30	0	9.2996553		9.9911927		9.3023626		0.6915374	0	30
			10"		10"		10"			
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

78 deg.

11 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.2996553	1035	9.9911927	43	9.3084626	1078	0.6915374	0	30
	30	9.2999657	1034	9.9911799	43	9.3087858	1077	0.6912142	30	
31	0	9.3002758	1033	9.9911670	43	9.3091888	1076	0.6908912	0	29
	30	9.3005857	1032	9.9911541	43	9.3094316	1075	0.6905684	30	
32	0	9.3008953	1032	9.9911412	42	9.3097541	1075	0.6902459	0	28
	30	9.3012048	1031	9.9911283	43	9.3100764	1074	0.6899236	30	
33	0	9.3015140	1030	9.9911154	43	9.3103985	1074	0.6896015	0	27
	30	9.3018229	1030	9.9911025	43	9.3107204	1073	0.6892796	30	
34	0	9.3021317	1029	9.9910896	43	9.3110421	1072	0.6889579	0	26
	30	9.3024402	1028	9.9910767	44	9.3113635	1071	0.6886365	30	
35	0	9.3027485	1027	9.9910637	43	9.3116848	1070	0.6883152	0	25
	30	9.3030566	1026	9.9910508	44	9.3120058	1069	0.6879942	30	
36	0	9.3033644	1025	9.9910378	43	9.3123266	1069	0.6876734	0	24
	30	9.3036720	1025	9.9910248	43	9.3126472	1068	0.6873528	30	
37	0	9.3039794	1024	9.9910119	44	9.3129675	1068	0.6870325	0	23
	30	9.3042865	1024	9.9909989	44	9.3132877	1066	0.6867123	30	
38	0	9.3045934	1023	9.9909859	44	9.3136076	1066	0.6863924	0	22
	30	9.3049001	1022	9.9909729	44	9.3139273	1065	0.6860727	30	
39	0	9.3052066	1021	9.9909598	43	9.3142468	1064	0.6857532	0	21
	30	9.3055129	1020	9.9909468	43	9.3145661	1063	0.6854339	30	
40	0	9.3058189	1020	9.9909338	44	9.3148851	1063	0.6851149	0	20
	30	9.3061247	1019	9.9909207	43	9.3152040	1062	0.6847960	30	
41	0	9.3064303	1018	9.9909077	44	9.3155226	1062	0.6844774	0	19
	30	9.3067356	1017	9.9908946	44	9.3158410	1061	0.6841590	30	
42	0	9.3070407	1017	9.9908815	43	9.3161592	1060	0.6838408	0	18
	30	9.3073456	1016	9.9908684	43	9.3164772	1060	0.6835228	30	
43	0	9.3076503	1015	9.9908553	43	9.3167950	1059	0.6832050	0	17
	30	9.3079548	1014	9.9908422	43	9.3171125	1059	0.6828875	30	
44	0	9.3082590	1014	9.9908291	44	9.3174299	1057	0.6825701	0	16
	30	9.3085630	1013	9.9908160	44	9.3177470	1057	0.6822530	30	
45	0	9.3088668	1012	9.9908029	44	9.3180640	1055	0.6819360	0	15
	30	9.3091704	1011	9.9907897	44	9.3183807	1055	0.6816193	30	
46	0	9.3094737	1011	9.9907766	44	9.3186972	1054	0.6813028	0	14
	30	9.3097769	1010	9.9907634	44	9.3190135	1053	0.6809865	30	
47	0	9.3100798	1009	9.9907502	44	9.3193295	1054	0.6806705	0	13
	30	9.3103825	1008	9.9907371	44	9.3196454	1053	0.6803546	30	
48	0	9.3106849	1008	9.9907239	44	9.3199611	1051	0.6800389	0	12
	30	9.3109872	1007	9.9907107	44	9.3202765	1051	0.6797235	30	
49	0	9.3112892	1006	9.9906974	44	9.3205918	1050	0.6794082	0	11
	30	9.3115910	1006	9.9906842	44	9.3209068	1049	0.6790932	30	
50	0	9.3118926	1005	9.9906710	44	9.3212216	1049	0.6787784	0	10
	30	9.3121940	1004	9.9906578	45	9.3215362	1048	0.6784638	30	
51	0	9.3124951	1004	9.9906445	44	9.3218506	1048	0.6781494	0	9
	30	9.3127961	1002	9.9906313	45	9.3221648	1047	0.6778352	30	
52	0	9.3130963	1002	9.9906180	44	9.3224788	1046	0.6775212	0	8
	30	9.3133973	1001	9.9906047	44	9.3227926	1045	0.6772074	30	
53	0	9.3136976	1000	9.9905914	44	9.3231061	1045	0.6768939	0	7
	30	9.3139976	1000	9.9905781	44	9.3234195	1044	0.6765805	30	
54	0	9.3142975	999	9.9905648	44	9.3237327	1043	0.6762673	0	6
	30	9.3145971	998	9.9905515	44	9.3240455	1043	0.6759544	30	
55	0	9.3148965	998	9.9905382	45	9.3243584	1042	0.6756416	0	5
	30	9.3151957	997	9.9905248	44	9.3246709	1041	0.6753291	30	
56	0	9.3154947	996	9.9905115	45	9.3249832	1041	0.6750168	0	4
	30	9.3157935	995	9.9904981	44	9.3252953	1040	0.6747047	30	
57	0	9.3160921	994	9.9904848	45	9.3256073	1039	0.6743927	0	3
	30	9.3163904	994	9.9904714	45	9.3259190	1038	0.6740810	30	
58	0	9.3166885	994	9.9904580	44	9.3262305	1038	0.6737695	0	2
	30	9.3169864	993	9.9904446	44	9.3265418	1037	0.6734582	30	
59	0	9.3172843	992	9.9904312	44	9.3268529	1037	0.6731471	0	1
	30	9.3175816	991	9.9904178	45	9.3271638	1036	0.6728362	30	
60	0	9.3178789		9.9904044		9.3274745		0.6725255	0	0
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

78 deg.

12 deg.

/	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	/
0	0	9.3178789	991	9.9904044	45	9.3274745	1035	0.6725255	0	60
	30	9.3181760	989	9.9903910	45	9.3277850	1035	0.6722150	30	
1	0	9.3184728	989	9.9903775	45	9.3280953	1034	0.6719047	0	59
	30	9.3187695	988	9.9903641	45	9.3284054	1033	0.6715946	30	
2	0	9.3190659	988	9.9903506	45	9.3287153	1032	0.6712847	0	58
	30	9.3193621	987	9.9903371	44	9.3290250	1032	0.6709750	30	
3	0	9.3196581	986	9.9903237	45	9.3293345	1031	0.6706655	0	57
	30	9.3199539	986	9.9903102	45	9.3296437	1031	0.6703563	30	
4	0	9.3202495	985	9.9902967	45	9.3299528	1030	0.6700472	0	56
	30	9.3205449	984	9.9902832	45	9.3302617	1029	0.6697383	30	
5	0	9.3208400	984	9.9902697	46	9.3305704	1028	0.6694296	0	55
	30	9.3211350	983	9.9902561	45	9.3308789	1028	0.6691211	30	
6	0	9.3214297	982	9.9902426	45	9.3311872	1027	0.6688128	0	54
	30	9.3217243	981	9.9902290	45	9.3314952	1027	0.6685048	30	
7	0	9.3220186	981	9.9902155	45	9.3318031	1026	0.6681969	0	53
	30	9.3223127	980	9.9902019	45	9.3321108	1025	0.6678892	30	
8	0	9.3226066	980	9.9901883	45	9.3324183	1024	0.6675817	0	52
	30	9.3229003	979	9.9901748	46	9.3327256	1024	0.6672744	30	
9	0	9.3231938	978	9.9901612	46	9.3330327	1023	0.6669673	0	51
	30	9.3234871	977	9.9901476	46	9.3333396	1022	0.6666604	30	
10	0	9.3237802	976	9.9901339	45	9.3336463	1021	0.6663537	0	50
	30	9.3240731	976	9.9901203	45	9.3339528	1021	0.6660472	30	
11	0	9.3243657	976	9.9901067	46	9.3342591	1020	0.6657409	0	49
	30	9.3246582	974	9.9900930	45	9.3345652	1019	0.6654348	30	
12	0	9.3249505	973	9.9900794	46	9.3348711	1019	0.6651289	0	48
	30	9.3252425	973	9.9900657	45	9.3351768	1018	0.6648232	30	
13	0	9.3255344	972	9.9900521	46	9.3354823	1018	0.6645177	0	47
	30	9.3258260	972	9.9900384	46	9.3357876	1017	0.6642124	30	
14	0	9.3261174	971	9.9900247	46	9.3360927	1017	0.6639073	0	46
	30	9.3264087	970	9.9900110	46	9.3363977	1016	0.6636023	30	
15	0	9.3266997	969	9.9899973	46	9.3367024	1015	0.6632976	0	45
	30	9.3269905	969	9.9899836	46	9.3370069	1015	0.6629931	30	
16	0	9.3272811	968	9.9899698	45	9.3373113	1014	0.6626887	0	44
	30	9.3275715	968	9.9899561	46	9.3376154	1014	0.6623846	30	
17	0	9.3278617	967	9.9899423	46	9.3379194	1013	0.6620806	0	43
	30	9.3281518	966	9.9899286	46	9.3382232	1012	0.6617768	30	
18	0	9.3284416	965	9.9899148	46	9.3385267	1012	0.6614733	0	42
	30	9.3287312	964	9.9899010	45	9.3388301	1011	0.6611699	30	
19	0	9.3290206	964	9.9898873	46	9.3391333	1010	0.6608667	0	41
	30	9.3293098	963	9.9898735	46	9.3394363	1009	0.6605637	30	
20	0	9.3295988	962	9.9898597	46	9.3397391	1009	0.6602609	0	40
	30	9.3298875	963	9.9898458	46	9.3400417	1008	0.6599583	30	
21	0	9.3301761	962	9.9898320	46	9.3403441	1008	0.6596559	0	39
	30	9.3304645	961	9.9898182	45	9.3406464	1007	0.6593536	30	
22	0	9.3307527	960	9.9898043	46	9.3409484	1006	0.6590516	0	38
	30	9.3310407	960	9.9897905	46	9.3412502	1006	0.6587498	30	
23	0	9.3313285	959	9.9897766	46	9.3415519	1005	0.6584481	0	37
	30	9.3316161	958	9.9897627	46	9.3418534	1004	0.6581466	30	
24	0	9.3319035	958	9.9897489	47	9.3421546	1004	0.6578454	0	36
	30	9.3321907	957	9.9897350	47	9.3424557	1003	0.6575443	30	
25	0	9.3324777	956	9.9897211	47	9.3427566	1003	0.6572434	0	35
	30	9.3327645	955	9.9897072	47	9.3430573	1002	0.6569427	30	
26	0	9.3330511	955	9.9896932	46	9.3433578	1002	0.6566422	0	34
	30	9.3333375	954	9.9896793	46	9.3436582	1000	0.6563418	30	
27	0	9.3336237	953	9.9896654	47	9.3439583	1000	0.6560417	0	33
	30	9.3339097	953	9.9896514	46	9.3442583	999	0.6557417	30	
28	0	9.3341955	952	9.9896374	46	9.3445580	999	0.6554420	0	32
	30	9.3344811	952	9.9896235	47	9.3448576	998	0.6551424	30	
29	0	9.3347665	951	9.9896095	47	9.3451570	998	0.6548430	0	31
	30	9.3350517	951	9.9895955	47	9.3454562	997	0.6545438	30	
30	0	9.3353368		9.9895815		9.3457552		0.6542448	0	30
/	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	/

77 deg.

12 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.3353368	949	9.9895815	47	9.3457552	997	0.6542448	0	30
	30	9.3356216	949	9.9895675	47	9.3460541	995	0.6539459	30	
31	0	9.3359062	948	9.9895535	47	9.3463527	995	0.6536473	0	29
	30	9.3361906	948	9.9895395	47	9.3466512	994	0.6533488	30	
32	0	9.3364749	947	9.9895254	47	9.3469494	994	0.6530506	0	28
	30	9.3367589	946	9.9895114	47	9.3472475	994	0.6527525	30	
33	0	9.3370428	945	9.9894973	47	9.3475454	993	0.6524546	0	27
	30	9.3373264	945	9.9894833	47	9.3478432	992	0.6521568	30	
34	0	9.3376099	944	9.9894692	47	9.3481407	991	0.6518593	0	26
	30	9.3378931	944	9.9894551	47	9.3484380	991	0.6515620	30	
35	0	9.3381762	943	9.9894410	47	9.3487352	990	0.6512648	0	25
	30	9.3384591	942	9.9894269	47	9.3490322	989	0.6509678	30	
36	0	9.3387418	941	9.9894128	47	9.3493290	989	0.6506710	0	24
	30	9.3390243	941	9.9893987	48	9.3496256	988	0.6503744	30	
37	0	9.3393065	941	9.9893845	47	9.3499220	988	0.6500780	0	23
	30	9.3395887	939	9.9893704	47	9.3502183	987	0.6497817	30	
38	0	9.3398706	939	9.9893562	47	9.3505143	987	0.6494857	0	22
	30	9.3401523	939	9.9893421	48	9.3508102	986	0.6491898	30	
39	0	9.3404338	938	9.9893279	47	9.3511059	986	0.6488941	0	21
	30	9.3407152	937	9.9893137	47	9.3514014	985	0.6485986	30	
40	0	9.3409963	937	9.9892995	47	9.3516968	984	0.6483032	0	20
	30	9.3412773	936	9.9892853	47	9.3519919	984	0.6480081	30	
41	0	9.3415580	936	9.9892711	47	9.3522869	983	0.6477131	0	19
	30	9.3418386	936	9.9892569	48	9.3525817	982	0.6474183	30	
42	0	9.3421190	934	9.9892427	48	9.3528763	982	0.6471237	0	18
	30	9.3423992	933	9.9892284	47	9.3531708	981	0.6468292	30	
43	0	9.3426792	933	9.9892142	48	9.3534650	980	0.6465350	0	17
	30	9.3429590	932	9.9891999	48	9.3537591	980	0.6462409	30	
44	0	9.3432386	932	9.9891856	47	9.3540530	979	0.6459470	0	16
	30	9.3435180	931	9.9891714	48	9.3543467	978	0.6456533	30	
45	0	9.3437973	930	9.9891571	48	9.3546402	978	0.6453598	0	15
	30	9.3440763	930	9.9891428	48	9.3549336	977	0.6450664	30	
46	0	9.3443552	929	9.9891285	48	9.3552267	977	0.6447733	0	14
	30	9.3446339	928	9.9891141	47	9.3555197	977	0.6444803	30	
47	0	9.3449124	928	9.9890998	48	9.3558126	975	0.6441874	0	13
	30	9.3451907	927	9.9890855	47	9.3561052	975	0.6438948	30	
48	0	9.3454688	927	9.9890711	48	9.3563977	974	0.6436023	0	12
	30	9.3457467	926	9.9890568	48	9.3566900	973	0.6433100	30	
49	0	9.3460245	925	9.9890424	48	9.3569821	973	0.6430179	0	11
	30	9.3463020	925	9.9890280	48	9.3572740	973	0.6427260	30	
50	0	9.3465794	924	9.9890137	48	9.3575658	972	0.6424342	0	10
	30	9.3468566	923	9.9889993	48	9.3578573	972	0.6421427	30	
51	0	9.3471336	923	9.9889849	48	9.3581487	971	0.6418513	0	9
	30	9.3474104	922	9.9889704	48	9.3584400	970	0.6415600	30	
52	0	9.3476870	922	9.9889560	48	9.3587310	970	0.6412690	0	8
	30	9.3479635	921	9.9889416	48	9.3590219	969	0.6409781	30	
53	0	9.3482397	921	9.9889271	48	9.3593126	968	0.6406874	0	7
	30	9.3485158	920	9.9889127	48	9.3596031	968	0.6403969	30	
54	0	9.3487917	919	9.9888982	48	9.3598935	967	0.6401065	0	6
	30	9.3490674	919	9.9888838	49	9.3601836	967	0.6398164	30	
55	0	9.3493429	918	9.9888693	49	9.3604736	967	0.6395264	0	5
	30	9.3496183	917	9.9888548	48	9.3607635	965	0.6392365	30	
56	0	9.3498934	917	9.9888403	48	9.3610531	965	0.6389469	0	4
	30	9.3501684	916	9.9888258	49	9.3613426	964	0.6386574	30	
57	0	9.3504432	915	9.9888113	49	9.3616319	964	0.6383681	0	3
	30	9.3507178	915	9.9887967	48	9.3619210	964	0.6380780	30	
58	0	9.3509922	914	9.9887822	49	9.3622100	963	0.6377880	0	2
	30	9.3512664	914	9.9887676	48	9.3624988	962	0.6375012	30	
59	0	9.3515405	913	9.9887531	49	9.3627874	962	0.6372126	0	1
	30	9.3518143	913	9.9887385	48	9.3630758	961	0.6369242	30	
60	0	9.3520880	10"	9.9887239	10"	9.3633641	10"	0.6366359	0	0
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

77 deg.



13 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.3520880	912	9.9887239	48	9.3633641	961	0.6366359	0	60
0	30	9.3523615	912	9.9887093	48	9.3636522	960	0.6363478	30	
1	0	9.3526349	910	9.9886947	48	9.3639401	960	0.6360599	0	59
1	30	9.3529080	910	9.9886801	48	9.3642279	959	0.6357721	30	
2	0	9.3531810	909	9.9886655	49	9.3645155	958	0.6354845	0	58
2	30	9.3534538	909	9.9886509	49	9.3648029	957	0.6351971	30	
3	0	9.3537264	908	9.9886363	49	9.3650901	957	0.6349099	0	57
3	30	9.3539988	908	9.9886216	49	9.3653772	956	0.6346228	30	
4	0	9.3542710	908	9.9886070	49	9.3656641	956	0.6343359	0	56
4	30	9.3545431	907	9.9885923	49	9.3659508	956	0.6340492	30	
5	0	9.3548150	906	9.9885776	49	9.3662374	955	0.6337626	0	55
5	30	9.3550867	905	9.9885629	49	9.3665238	954	0.6334762	30	
6	0	9.3553582	905	9.9885482	49	9.3668100	954	0.6331900	0	54
6	30	9.3556296	904	9.9885335	49	9.3670960	954	0.6329040	30	
7	0	9.3559007	904	9.9885188	49	9.3673819	953	0.6326181	0	53
7	30	9.3561717	903	9.9885041	49	9.3676676	952	0.6323324	30	
8	0	9.3564426	902	9.9884894	49	9.3679532	951	0.6320468	0	52
8	30	9.3567132	902	9.9884746	49	9.3682385	951	0.6317614	30	
9	0	9.3569836	902	9.9884599	49	9.3685238	950	0.6314762	0	51
9	30	9.3572539	901	9.9884451	49	9.3688088	950	0.6311912	30	
10	0	9.3575240	900	9.9884303	49	9.3690937	949	0.6309063	0	50
10	30	9.3577940	899	9.9884156	50	9.3693784	949	0.6306216	30	
11	0	9.3580637	899	9.9884008	50	9.3696629	948	0.6303371	0	49
11	30	9.3583333	898	9.9883860	50	9.3699473	948	0.6300527	30	
12	0	9.3586027	897	9.9883712	50	9.3702315	947	0.6297685	0	48
12	30	9.3588719	897	9.9883563	49	9.3705156	946	0.6294844	30	
13	0	9.3591409	897	9.9883415	49	9.3707994	946	0.6292006	0	47
13	30	9.3594098	896	9.9883267	49	9.3710831	946	0.6289169	30	
14	0	9.3596785	895	9.9883118	50	9.3713667	945	0.6286333	0	46
14	30	9.3599470	895	9.9882970	50	9.3716501	944	0.6283499	30	
15	0	9.3602154	894	9.9882821	50	9.3719333	943	0.6280667	0	45
15	30	9.3604835	894	9.9882672	50	9.3722163	943	0.6277837	30	
16	0	9.3607515	893	9.9882523	49	9.3724992	942	0.6275008	0	44
16	30	9.3610193	893	9.9882374	49	9.3727819	942	0.6272181	30	
17	0	9.3612870	892	9.9882225	50	9.3730645	941	0.6269355	0	43
17	30	9.3615544	892	9.9882076	50	9.3733468	941	0.6266532	30	
18	0	9.3618217	891	9.9881927	50	9.3736291	940	0.6263709	0	42
18	30	9.3620893	890	9.9881777	49	9.3739111	940	0.6260889	30	
19	0	9.3623558	890	9.9881628	50	9.3741930	940	0.6258070	0	41
19	30	9.3626225	889	9.9881478	50	9.3744748	938	0.6255252	30	
20	0	9.3628892	888	9.9881329	50	9.3747563	938	0.6252437	0	40
20	30	9.3631556	888	9.9881179	50	9.3750377	938	0.6249623	30	
21	0	9.3634219	887	9.9881029	50	9.3753190	937	0.6246810	0	39
21	30	9.3636880	886	9.9880879	50	9.3756001	936	0.6243999	30	
22	0	9.3639539	886	9.9880729	50	9.3758810	936	0.6241190	0	38
22	30	9.3642196	886	9.9880579	50	9.3761617	936	0.6238383	30	
23	0	9.3644852	885	9.9880429	50	9.3764423	935	0.6235577	0	37
23	30	9.3647506	884	9.9880278	50	9.3767228	934	0.6232772	30	
24	0	9.3650158	884	9.9880128	50	9.3770030	934	0.6229970	0	36
24	30	9.3652809	883	9.9879977	50	9.3772831	934	0.6227169	30	
25	0	9.3655458	882	9.9879827	50	9.3775631	933	0.6224369	0	35
25	30	9.3658105	882	9.9879676	50	9.3778429	932	0.6221571	30	
26	0	9.3660750	882	9.9879525	50	9.3781225	931	0.6218775	0	34
26	30	9.3663394	881	9.9879374	50	9.3784022	931	0.6215980	30	
27	0	9.3666036	880	9.9879223	50	9.3786813	930	0.6213187	0	33
27	30	9.3668676	880	9.9879072	50	9.3789604	930	0.6210396	30	
28	0	9.3671315	879	9.9878921	50	9.3792394	929	0.6207606	0	32
28	30	9.3673952	878	9.9878770	51	9.3795182	929	0.6204818	30	
29	0	9.3676587	878	9.9878618	50	9.3797969	928	0.6202031	0	31
29	30	9.3679221	877	9.9878467	51	9.3800754	928	0.6199246	30	
30	0	9.3681853	10"	9.9878315	10"	9.3803537	10"	0.6196463	0	30
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

76 deg.

13 deg.

°	'	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	'	°
30	0	9.3631853	876	9.9878315	50	9.3803537	928	0.6196463	0	30
	30	9.3684483	876	9.9878163	50	9.3806319	927	0.6193681	30	
31	0	9.3687111	876	9.9878012	51	9.3809100	926	0.6190900	0	29
	30	9.3689738	875	9.9877860	51	9.3811878	926	0.6188122	30	
32	0	9.3692363	875	9.9877708	51	9.3814655	926	0.6185345	0	28
	30	9.3694987	874	9.9877556	51	9.3817431	925	0.6182569	30	
33	0	9.3697608	874	9.9877404	51	9.3820205	924	0.6179795	0	27
	30	9.3700229	873	9.9877251	51	9.3822977	924	0.6177023	30	
34	0	9.3702847	872	9.9877099	51	9.3825748	923	0.6174252	0	26
	30	9.3705464	872	9.9876946	50	9.3828517	923	0.6171483	30	
35	0	9.3708079	871	9.9876794	51	9.3831285	922	0.6168715	0	25
	30	9.3710692	871	9.9876641	51	9.3834051	922	0.6165949	30	
36	0	9.3713304	870	9.9876488	51	9.3836816	921	0.6163184	0	24
	30	9.3715914	870	9.9876335	51	9.3839579	920	0.6160421	30	
37	0	9.3718523	869	9.9876183	51	9.3842340	920	0.6157660	0	23
	30	9.3721130	868	9.9876030	52	9.3845100	920	0.6154900	30	
38	0	9.3723735	868	9.9875878	51	9.3847858	919	0.6152142	0	22
	30	9.3726338	868	9.9875723	51	9.3850615	919	0.6149385	30	
39	0	9.3728940	867	9.9875570	51	9.3853370	918	0.6146630	0	21
	30	9.3731540	867	9.9875416	51	9.3856124	917	0.6143876	30	
40	0	9.3734139	866	9.9875263	51	9.3858876	917	0.6141124	0	20
	30	9.3736736	865	9.9875109	51	9.3861627	916	0.6138373	30	
41	0	9.3739331	865	9.9874955	51	9.3864376	916	0.6135624	0	19
	30	9.3741925	864	9.9874802	52	9.3867123	915	0.6132877	30	
42	0	9.3744517	863	9.9874648	52	9.3869869	915	0.6130131	0	18
	30	9.3747107	863	9.9874494	52	9.3872613	915	0.6127387	30	
43	0	9.3749696	862	9.9874339	51	9.3875356	914	0.6124644	0	17
	30	9.3752283	862	9.9874185	51	9.3878097	914	0.6121903	30	
44	0	9.3754868	862	9.9874031	52	9.3880837	913	0.6119163	0	16
	30	9.3757452	861	9.9873877	52	9.3883575	913	0.6116425	30	
45	0	9.3760034	860	9.9873722	52	9.3886312	912	0.6113688	0	15
	30	9.3762615	859	9.9873567	51	9.3889047	912	0.6110953	30	
46	0	9.3765194	859	9.9873413	52	9.3891781	911	0.6108219	0	14
	30	9.3767771	859	9.9873258	52	9.3894513	910	0.6105487	30	
47	0	9.3770347	858	9.9873103	52	9.3897244	909	0.6102756	0	13
	30	9.3772921	857	9.9872948	52	9.3899973	909	0.6100027	30	
48	0	9.3775493	857	9.9872793	52	9.3902700	909	0.6097300	0	12
	30	9.3778064	856	9.9872638	52	9.3905426	909	0.6094574	30	
49	0	9.3780633	855	9.9872482	51	9.3908151	908	0.6091849	0	11
	30	9.3783201	855	9.9872327	52	9.3910874	907	0.6089126	30	
50	0	9.3785767	855	9.9872171	51	9.3913595	907	0.6086405	0	10
	30	9.3788331	855	9.9872016	52	9.3916315	907	0.6083685	30	
51	0	9.3790894	854	9.9871860	52	9.3919034	906	0.6080966	0	9
	30	9.3793455	853	9.9871704	52	9.3921751	905	0.6078249	30	
52	0	9.3796015	852	9.9871549	52	9.3924466	905	0.6075534	0	8
	30	9.3798573	852	9.9871393	52	9.3927180	904	0.6072820	30	
53	0	9.3801129	852	9.9871236	52	9.3929893	903	0.6070107	0	7
	30	9.3803684	851	9.9871080	52	9.3932604	903	0.6067396	30	
54	0	9.3806237	851	9.9870924	52	9.3935313	903	0.6064687	0	6
	30	9.3808789	850	9.9870768	52	9.3938021	902	0.6061979	30	
55	0	9.3811339	849	9.9870611	52	9.3940727	902	0.6059273	0	5
	30	9.3813887	849	9.9870455	53	9.3943432	902	0.6056568	30	
56	0	9.3816434	849	9.9870298	52	9.3946136	901	0.6053864	0	4
	30	9.3818979	848	9.9870141	52	9.3948838	900	0.6051162	30	
57	0	9.3821523	847	9.9869984	52	9.3951538	900	0.6048462	0	3
	30	9.3824065	847	9.9869827	52	9.3954238	899	0.6045762	30	
58	0	9.3826605	847	9.9869670	52	9.3956935	899	0.6043065	0	2
	30	9.3829144	846	9.9869513	52	9.3959631	899	0.6040369	30	
59	0	9.3831682	845	9.9869356	52	9.3962326	898	0.6037674	0	1
	30	9.3834218	844	9.9869199	53	9.3965019	897	0.6034981	30	
60	0	9.3836752		9.9869041		9.3967711		0.6032289	0	0
°	'	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	'	°

76 deg.

14 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	"	'
0	0	9.3836752	844	9.9869741	52	9.3967711	836	0.6032289	0	60
	30	9.3839284	844	9.9868884	53	9.3970401	896	0.6029599	30	
1	0	9.3841815	844	9.9868726	53	9.3973089	896	0.6026911	0	59
	30	9.3844345	843	9.9868568	52	9.3975777	895	0.6024223	30	
2	0	9.3846873	842	9.9868410	52	9.3978463	894	0.6021537	0	58
	30	9.3849399	842	9.9868253	53	9.3981147	894	0.6018853	30	
3	0	9.3851924	841	9.9868094	52	9.3983830	894	0.6016170	0	57
	30	9.3854447	841	9.9867936	52	9.3986511	894	0.6013489	30	
4	0	9.3856969	840	9.9867778	53	9.3989191	893	0.6010809	0	56
	30	9.3859489	840	9.9867620	53	9.3991869	893	0.6008131	30	
5	0	9.3862008	839	9.9867461	52	9.3994547	892	0.6005453	0	55
	30	9.3864525	839	9.9867303	53	9.3997222	892	0.6002778	30	
6	0	9.3867040	839	9.9867144	53	9.3999896	891	0.6000104	0	54
	30	9.3869554	838	9.9866986	53	9.4002569	890	0.5997431	30	
7	0	9.3872067	837	9.9866827	53	9.4005240	890	0.5994760	0	53
	30	9.3874578	836	9.9866668	53	9.4007910	889	0.5992090	30	
8	0	9.3877087	836	9.9866509	53	9.4010578	889	0.5989422	0	52
	30	9.3879595	835	9.9866350	53	9.4013245	889	0.5986755	30	
9	0	9.3882101	835	9.9866191	54	9.4015910	889	0.5984090	0	51
	30	9.3884606	834	9.9866031	53	9.4018574	888	0.5981426	30	
10	0	9.3887109	834	9.9865872	53	9.4021237	887	0.5978763	0	50
	30	9.3889611	833	9.9865712	53	9.4023898	887	0.5976102	30	
11	0	9.3892111	833	9.9865553	53	9.4026558	886	0.5973442	0	49
	30	9.3894609	833	9.9865393	53	9.4029216	886	0.5970784	30	
12	0	9.3897106	832	9.9865233	53	9.4031873	885	0.5968127	0	48
	30	9.3899602	831	9.9865073	53	9.4034528	885	0.5965472	30	
13	0	9.3902096	831	9.9864913	53	9.4037182	885	0.5962818	0	47
	30	9.3904588	831	9.9864753	53	9.4039835	884	0.5960165	30	
14	0	9.3907079	830	9.9864593	53	9.4042486	883	0.5957514	0	46
	30	9.3909569	829	9.9864433	54	9.4045136	883	0.5954864	30	
15	0	9.3912057	828	9.9864273	54	9.4047784	882	0.5952216	0	45
	30	9.3914543	828	9.9864112	53	9.4050431	882	0.5949569	30	
16	0	9.3917028	828	9.9863952	54	9.4053076	882	0.5946924	0	44
	30	9.3919511	828	9.9863791	54	9.4055720	881	0.5944280	30	
17	0	9.3921993	827	9.9863630	54	9.4058363	880	0.5941637	0	43
	30	9.3924473	827	9.9863469	53	9.4061004	880	0.5938996	30	
18	0	9.3926952	826	9.9863308	53	9.4063644	880	0.5936356	0	42
	30	9.3929430	825	9.9863147	53	9.4066282	879	0.5933718	30	
19	0	9.3931905	825	9.9862986	54	9.4068919	879	0.5931081	0	41
	30	9.3934380	824	9.9862825	53	9.4071555	878	0.5928445	30	
20	0	9.3936852	824	9.9862663	53	9.4074189	878	0.5925811	0	40
	30	9.3939324	823	9.9862502	54	9.4076822	877	0.5923178	30	
21	0	9.3941794	823	9.9862340	53	9.4079453	877	0.5920547	0	39
	30	9.3944262	822	9.9862179	54	9.4082083	876	0.5917917	30	
22	0	9.3946729	822	9.9862017	54	9.4084712	876	0.5915288	0	38
	30	9.3949194	822	9.9861855	54	9.4087339	875	0.5912661	30	
23	0	9.3951658	821	9.9861693	53	9.4089965	875	0.5910035	0	37
	30	9.3954120	821	9.9861531	54	9.4092589	875	0.5907411	30	
24	0	9.3956581	820	9.9861369	54	9.4095212	874	0.5904788	0	36
	30	9.3959041	819	9.9861207	54	9.4097834	873	0.5902166	30	
25	0	9.3961492	819	9.9861045	55	9.4100454	873	0.5899546	0	35
	30	9.3963935	818	9.9860882	54	9.4103073	872	0.5896927	30	
26	0	9.3966410	818	9.9860720	55	9.4105690	872	0.5894310	0	34
	30	9.3968863	818	9.9860557	54	9.4108306	872	0.5891694	30	
27	0	9.3971315	817	9.9860394	54	9.4110921	871	0.5889079	0	33
	30	9.3973766	816	9.9860231	54	9.4113534	871	0.5886466	30	
28	0	9.3976215	816	9.9860069	55	9.4116146	871	0.5883854	0	32
	30	9.3978663	815	9.9859906	55	9.4118757	870	0.5881243	30	
29	0	9.3981109	815	9.9859742	54	9.4121366	870	0.5878634	0	31
	30	9.3983553	815	9.9859579	54	9.4123974	869	0.5876026	30	
30	0	9.3985996		9.9859416		9.4126581		0.5873419	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

75 deg.

14 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.3985936	814	9.9852416	55	9.4126581	868	0.5873419	0	30
	30	9.3983438	814	9.985253	55	9.4129186	868	0.5870814	30	
31	0	9.3990878	813	9.985089	55	9.4131789	868	0.5868211	0	29
	30	9.3993317	813	9.9858925	54	9.4134392	867	0.5865603	30	
32	0	9.3995754	813	9.9853762	55	9.4136993	866	0.5863007	0	28
	30	9.3998190	812	9.9858598	55	9.4139592	867	0.5860408	30	
33	0	9.4000625	811	9.9858434	55	9.4142191	865	0.5857809	0	27
	30	9.4003058	810	9.9858270	55	9.4144788	865	0.5855212	30	
34	0	9.4005489	810	9.9858106	55	9.4147383	865	0.5852617	0	26
	30	9.4007919	810	9.9857942	55	9.4149977	865	0.5850023	30	
35	0	9.4010348	809	9.9857777	54	9.4152570	865	0.5847430	0	25
	30	9.4012775	809	9.9857613	55	9.4155162	863	0.5844838	30	
36	0	9.4015201	808	9.9857449	55	9.4157752	863	0.5842248	0	24
	30	9.4017625	808	9.9857284	55	9.4160341	862	0.5839659	30	
37	0	9.4020048	807	9.9857119	55	9.4162928	862	0.5837072	0	23
	30	9.4022469	807	9.9856955	55	9.4165514	862	0.5834486	30	
38	0	9.4024889	806	9.9856790	55	9.4168099	862	0.5831901	0	22
	30	9.4027307	806	9.9856625	55	9.4170683	861	0.5829317	30	
39	0	9.4029724	805	9.9856460	55	9.4173265	860	0.5826735	0	21
	30	9.4032140	805	9.9856294	55	9.4175846	860	0.5824154	30	
40	0	9.4034554	805	9.9856129	55	9.4178425	859	0.5821575	0	20
	30	9.4036957	804	9.9855964	55	9.4181003	859	0.5818997	30	
41	0	9.4039378	804	9.9855798	55	9.4183580	858	0.5816420	0	19
	30	9.4041788	803	9.9855633	55	9.4186155	858	0.5813845	30	
42	0	9.4044196	803	9.9855467	55	9.4188729	858	0.5811271	0	18
	30	9.4046603	803	9.9855301	55	9.4191302	857	0.5808698	30	
43	0	9.4049009	802	9.9855135	55	9.4193874	856	0.5806126	0	17
	30	9.4051413	801	9.9854970	56	9.4196444	856	0.5803556	30	
44	0	9.4053816	801	9.9854803	55	9.4199013	856	0.5800987	0	16
	30	9.4056217	800	9.9854637	55	9.4201580	856	0.5798420	30	
45	0	9.4058617	800	9.9854471	55	9.4204146	855	0.5795854	0	15
	30	9.4061016	799	9.9854305	56	9.4206711	855	0.5793289	30	
46	0	9.4063413	798	9.9854138	55	9.4209275	854	0.5790725	0	14
	30	9.4065803	799	9.9853972	56	9.4211837	854	0.5788163	30	
47	0	9.4068203	797	9.9853805	56	9.4214398	853	0.5785602	0	13
	30	9.4070596	797	9.9853638	55	9.4216957	853	0.5783043	30	
48	0	9.4072987	797	9.9853471	55	9.4219515	853	0.5780485	0	12
	30	9.4075377	796	9.9853305	56	9.4222072	852	0.5777928	30	
49	0	9.4077766	795	9.9853138	56	9.4224628	852	0.5775372	0	11
	30	9.4080153	795	9.9852970	55	9.4227182	852	0.5772818	30	
50	0	9.4082539	795	9.9852803	56	9.4229735	851	0.5770265	0	10
	30	9.4084923	794	9.9852636	56	9.4232287	850	0.5767713	30	
51	0	9.4087305	794	9.9852468	55	9.4234838	849	0.5765162	0	9
	30	9.4089688	793	9.9852301	56	9.4237387	849	0.5762613	30	
52	0	9.4092068	793	9.9852133	56	9.4239935	849	0.5760065	0	8
	30	9.4094447	792	9.9851965	55	9.4242481	849	0.5757519	30	
53	0	9.4096824	792	9.9851798	56	9.4245026	848	0.5754974	0	7
	30	9.4099200	792	9.9851630	56	9.4247570	848	0.5752420	30	
54	0	9.4101575	791	9.9851462	56	9.4250113	847	0.5749887	0	6
	30	9.4103948	791	9.9851294	56	9.4252654	847	0.5747346	30	
55	0	9.4106320	790	9.9851125	56	9.4255194	847	0.5744806	0	5
	30	9.4108690	790	9.9850957	56	9.4257733	846	0.5742267	30	
56	0	9.4111059	790	9.9850789	57	9.4260271	845	0.5739729	0	4
	30	9.4113427	789	9.9850620	56	9.4262807	845	0.5737193	30	
57	0	9.4115793	789	9.9850452	57	9.4265342	845	0.5734658	0	3
	30	9.4118158	788	9.9850283	56	9.4267875	845	0.5732125	30	
58	0	9.4120522	787	9.9850114	56	9.4270408	844	0.5729592	0	2
	30	9.4122884	787	9.9849945	56	9.4272939	843	0.5727061	30	
59	0	9.4125245	786	9.9849776	56	9.4275469	843	0.5724531	0	1
	30	9.4127604	786	9.9849607	56	9.4277997	843	0.5722003	30	
60	0	9.4129962		9.9849438		9.4280525		0.5719475	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

75 deg.



15 deg.

'		l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.4129962	786	9.9849438	57	9.4280525	842	0.5719475	0	60
	30	9.4132319	785	9.9849268	56	9.4283051	841	0.5716949	30	
1	0	9.4134674	785	9.9849099	56	9.4285575	842	0.5714425	0	59
	30	9.4137028	785	9.9848930	57	9.4288099	841	0.5711901	30	
2	0	9.4139381	784	9.9848760	57	9.4290621	840	0.5709379	0	58
	30	9.4141732	783	9.9848590	56	9.4293142	840	0.5706858	30	
3	0	9.4144082	783	9.9848420	56	9.4295661	840	0.5704339	0	57
	30	9.4146430	783	9.9848251	57	9.4298180	839	0.5701820	30	
4	0	9.4148778	782	9.9848081	57	9.4300697	839	0.5699303	0	56
	30	9.4151123	782	9.9847911	57	9.4303213	838	0.5696787	30	
5	0	9.4153468	781	9.9847740	56	9.4305727	838	0.5694273	0	55
	30	9.4155811	780	9.9847570	57	9.4308241	837	0.5691759	30	
6	0	9.4158152	781	9.9847400	57	9.4310753	837	0.5689247	0	54
	30	9.4160493	780	9.9847229	57	9.4313264	836	0.5686736	30	
7	0	9.4162832	779	9.9847059	57	9.4315773	836	0.5684227	0	53
	30	9.4165169	779	9.9846888	57	9.4318281	836	0.5681719	30	
8	0	9.4167506	778	9.9846717	57	9.4320793	835	0.5679211	0	52
	30	9.4169841	778	9.9846546	57	9.4323294	835	0.5676706	30	
9	0	9.4172174	778	9.9846375	57	9.4325795	835	0.5674201	0	51
	30	9.4174506	778	9.9846204	57	9.4328302	834	0.5671698	30	
10	0	9.4176837	777	9.9846033	57	9.4330804	834	0.5669196	0	50
	30	9.4179167	776	9.9845862	57	9.4333305	834	0.5666695	30	
11	0	9.4181495	776	9.9845690	57	9.4335805	833	0.5664195	0	49
	30	9.4183822	775	9.9845519	57	9.4338303	833	0.5661697	30	
12	0	9.4186148	775	9.9845347	57	9.4340800	832	0.5659200	0	48
	30	9.4188472	774	9.9845176	58	9.4343296	832	0.5656704	30	
13	0	9.4190795	774	9.9845004	57	9.4345791	831	0.5654209	0	47
	30	9.4193116	774	9.9844832	57	9.4348284	831	0.5651716	30	
14	0	9.4195436	774	9.9844660	57	9.4350776	831	0.5649224	0	46
	30	9.4197755	773	9.9844488	57	9.4353267	830	0.5646733	30	
15	0	9.4200073	772	9.9844316	58	9.4355757	830	0.5644243	0	45
	30	9.4202389	772	9.9844144	58	9.4358245	830	0.5641755	30	
16	0	9.4204704	771	9.9843971	57	9.4360733	829	0.5639267	0	44
	30	9.4207018	770	9.9843799	58	9.4363219	828	0.5636781	30	
17	0	9.4209330	770	9.9843626	57	9.4365704	828	0.5634276	0	43
	30	9.4211641	770	9.9843454	58	9.4368187	828	0.5631783	30	
18	0	9.4213950	770	9.9843281	58	9.4370670	827	0.5629290	0	42
	30	9.4216259	769	9.9843108	58	9.4373151	827	0.5626804	30	
19	0	9.4218566	768	9.9842935	58	9.4375631	826	0.5624306	0	41
	30	9.4220871	769	9.9842762	58	9.4378109	826	0.5621811	30	
20	0	9.4223176	767	9.9842589	58	9.4380587	825	0.5619313	0	40
	30	9.4225479	767	9.9842416	58	9.4383063	825	0.5616837	30	
21	0	9.4227780	767	9.9842242	58	9.4385538	825	0.5614362	0	39
	30	9.4230081	766	9.9842069	58	9.4388012	824	0.5611888	30	
22	0	9.4232380	766	9.9841895	58	9.4390485	823	0.5609415	0	38
	30	9.4234678	765	9.9841722	58	9.4392956	823	0.5606944	30	
23	0	9.4236974	765	9.9841548	58	9.4395426	823	0.5604474	0	37
	30	9.4239269	765	9.9841374	58	9.4397895	823	0.5602005	30	
24	0	9.4241563	764	9.9841200	58	9.4400363	822	0.5599537	0	36
	30	9.4243856	764	9.9841026	58	9.4402830	822	0.5597070	30	
25	0	9.4246147	763	9.9840852	58	9.4405295	822	0.5594605	0	35
	30	9.4248437	763	9.9840678	58	9.4407759	821	0.5592141	30	
26	0	9.4250726	762	9.9840503	58	9.4410222	821	0.5589678	0	34
	30	9.4253013	762	9.9840329	58	9.4412684	820	0.5587216	30	
27	0	9.4255299	762	9.9840154	58	9.4415145	819	0.5584755	0	33
	30	9.4257584	761	9.9839980	58	9.4417604	819	0.5582296	30	
28	0	9.4259867	761	9.9839805	58	9.4420062	819	0.5579838	0	32
	30	9.4262149	761	9.9839630	58	9.4422519	819	0.5577381	30	
29	0	9.4264430	760	9.9839455	58	9.4424975	818	0.5574925	0	31
	30	9.4266710	760	9.9839280	58	9.4427430	818	0.5572470	30	
30	0	9.4268988		9.9839105		9.4429883		0.5570017	0	30
'		10"		10"		10"				'
	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	

74 deg.

15 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.4268288	759	9.9832105	58	9.4429883	818	0.5570117	0	30
	30	9.4271265	759	9.9832300	58	9.4432335	817	0.5567665	0	30
31	0	9.4273541	758	9.9832755	59	9.4434786	817	0.5565214	0	29
	30	9.4275815	758	9.9833179	58	9.4437236	817	0.5562764	0	30
32	0	9.4278089	757	9.9833604	59	9.4439685	816	0.5560315	0	28
	30	9.4280361	757	9.9833828	59	9.4442133	815	0.5557867	0	30
33	0	9.4282631	757	9.9834052	58	9.4444579	815	0.5555421	0	27
	30	9.4284901	756	9.9834277	59	9.4447024	815	0.5552976	0	30
34	0	9.4287169	755	9.9834701	59	9.4449468	814	0.5550532	0	26
	30	9.4289435	756	9.9834925	59	9.4451911	814	0.5548089	0	30
35	0	9.4291701	755	9.9835348	58	9.4454352	814	0.5545648	0	25
	30	9.4293965	755	9.9835572	58	9.4456793	813	0.5543207	0	30
36	0	9.4296228	754	9.9835996	59	9.4459232	813	0.5540766	0	24
	30	9.4298490	753	9.9836220	59	9.4461670	813	0.5538330	0	30
37	0	9.4300750	753	9.9836643	59	9.4464107	812	0.5535893	0	23
	30	9.4303009	753	9.9836866	58	9.4466543	812	0.5533457	0	30
38	0	9.4305267	753	9.9837090	59	9.4468978	811	0.5531022	0	22
	30	9.4307524	752	9.9837313	59	9.4471411	811	0.5528589	0	30
39	0	9.4309779	752	9.9837536	59	9.4473843	811	0.5526157	0	21
	30	9.4312033	752	9.9837759	59	9.4476274	811	0.5523726	0	30
40	0	9.4314286	751	9.9837982	59	9.4478704	810	0.5521296	0	20
	30	9.4316538	750	9.9838205	59	9.4481133	810	0.5518867	0	30
41	0	9.4318788	750	9.9838427	59	9.4483561	809	0.5516439	0	19
	30	9.4321037	750	9.9838650	59	9.4485987	809	0.5514013	0	30
42	0	9.4323285	749	9.9838872	59	9.4488415	808	0.5511587	0	18
	30	9.4325532	748	9.9839095	59	9.4490837	808	0.5509163	0	30
43	0	9.4327777	748	9.9839317	59	9.4493260	807	0.5506740	0	17
	30	9.4330021	748	9.9839539	59	9.4495682	807	0.5504318	0	30
44	0	9.4332264	747	9.9839761	59	9.4498102	807	0.5501898	0	16
	30	9.4334505	747	9.9839983	59	9.4500522	806	0.5499478	0	30
45	0	9.4336746	746	9.9833805	59	9.4502940	806	0.5497060	0	15
	30	9.4338985	746	9.9834027	59	9.4505358	805	0.5494642	0	30
46	0	9.4341223	745	9.9834249	60	9.4507774	805	0.5492226	0	14
	30	9.4343459	745	9.9834471	60	9.4510189	804	0.5489811	0	30
47	0	9.4345694	745	9.9834692	60	9.4512602	805	0.5487398	0	13
	30	9.4347929	744	9.9834913	59	9.4515015	804	0.5484985	0	30
48	0	9.4350161	744	9.9835135	60	9.4517427	803	0.5482573	0	12
	30	9.4352393	744	9.9835356	60	9.4519837	803	0.5480163	0	30
49	0	9.4354623	744	9.9835577	60	9.4522246	803	0.5477754	0	11
	30	9.4356852	743	9.9835798	60	9.4524654	803	0.5475346	0	30
50	0	9.4359080	743	9.9836019	60	9.4527061	802	0.5472939	0	10
	30	9.4361307	742	9.9836240	60	9.4529467	802	0.5470533	0	30
51	0	9.4363532	742	9.9836461	60	9.4531872	801	0.5468128	0	9
	30	9.4365757	741	9.9836681	60	9.4534276	800	0.5465724	0	30
52	0	9.4367980	740	9.9836902	60	9.4536678	801	0.5463322	0	8
	30	9.4370201	741	9.9837122	60	9.4539079	800	0.5460921	0	30
53	0	9.4372422	740	9.9837343	60	9.4541479	800	0.5458521	0	7
	30	9.4374641	740	9.9837563	60	9.4543879	799	0.5456121	0	30
54	0	9.4376859	739	9.9837783	60	9.4546276	800	0.5453724	0	6
	30	9.4379076	739	9.9838003	60	9.4548673	799	0.5451327	0	30
55	0	9.4381292	738	9.9838223	60	9.4551069	798	0.5448931	0	5
	30	9.4383506	738	9.9838442	60	9.4553464	797	0.5446536	0	30
56	0	9.4385719	737	9.9838662	60	9.4555857	798	0.5444143	0	4
	30	9.4387931	737	9.9838882	60	9.4558249	798	0.5441751	0	30
57	0	9.4390142	737	9.9839101	60	9.4560641	796	0.5439359	0	3
	30	9.4392351	737	9.9839321	60	9.4563031	796	0.5436966	0	30
58	0	9.4394560	736	9.9839540	60	9.4565420	796	0.5434580	0	2
	30	9.4396767	735	9.9839759	60	9.4567807	796	0.5432193	0	30
59	0	9.4398973	735	9.9839978	60	9.4570194	796	0.5429806	0	1
	30	9.4401177	735	9.9840197	60	9.4572580	795	0.5427420	0	30
60	0	9.4403381		9.9828416		9.4574964		0.5425036	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

74 deg.

16 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.4403381	734	9.9828416	60	9.4574964	795	0.5425036	0	60
	30	9.4405583	734	9.9828235	60	9.4577348	794	0.5422652	30	
1	0	9.4407784	733	9.9828054	61	9.4579730	794	0.5420270	0	59
	30	9.4409984	733	9.9827873	61	9.4582111	794	0.5417889	30	
2	0	9.4412182	733	9.9827691	61	9.4584491	794	0.5415509	0	58
	30	9.4414380	732	9.9827510	61	9.4586870	793	0.5413130	30	
3	0	9.4416576	732	9.9827328	61	9.4589248	793	0.5410752	0	57
	30	9.4418771	732	9.9827146	61	9.4591625	792	0.5408375	30	
4	0	9.4420965	731	9.9826964	60	9.4594001	792	0.5405992	0	56
	30	9.4423158	730	9.9826782	60	9.4596375	792	0.5403625	30	
5	0	9.4425349	730	9.9826600	61	9.4598749	791	0.5401251	0	55
	30	9.4427539	730	9.9826418	61	9.4601121	791	0.5398879	30	
6	0	9.4429728	730	9.9826236	61	9.4603492	791	0.5396508	0	54
	30	9.4431916	729	9.9826053	60	9.4605863	789	0.5394137	30	
7	0	9.4434103	728	9.9825871	61	9.4608232	789	0.5391768	0	53
	30	9.4436283	728	9.9825688	61	9.4610600	789	0.5389400	30	
8	0	9.4438472	728	9.9825506	61	9.4612967	788	0.5387033	0	52
	30	9.4440655	728	9.9825323	61	9.4615333	788	0.5384667	30	
9	0	9.4442837	727	9.9825140	61	9.4617697	788	0.5382303	0	51
	30	9.4445018	727	9.9824957	61	9.4620061	788	0.5379939	30	
10	0	9.4447197	727	9.9824774	61	9.4622423	788	0.5377577	0	50
	30	9.4449376	726	9.9824591	61	9.4624785	787	0.5375215	30	
11	0	9.4451553	725	9.9824408	62	9.4627145	787	0.5372855	0	49
	30	9.4453729	725	9.9824224	61	9.4629505	786	0.5370495	30	
12	0	9.4455904	724	9.9824041	61	9.4631863	786	0.5368137	0	48
	30	9.4458077	724	9.9823857	61	9.4634220	785	0.5365780	30	
13	0	9.4460250	723	9.9823674	62	9.4636576	785	0.5363424	0	47
	30	9.4462421	723	9.9823490	62	9.4638931	785	0.5361069	30	
14	0	9.4464591	723	9.9823306	61	9.4641285	784	0.5358715	0	46
	30	9.4466760	722	9.9823122	61	9.4643638	784	0.5356362	30	
15	0	9.4468927	723	9.9822938	62	9.4645990	783	0.5354010	0	45
	30	9.4471094	722	9.9822754	62	9.4648340	784	0.5351660	30	
16	0	9.4473259	722	9.9822569	61	9.4650690	783	0.5349310	0	44
	30	9.4475423	722	9.9822385	61	9.4653038	783	0.5346962	30	
17	0	9.4477586	721	9.9822201	62	9.4655386	782	0.5344614	0	43
	30	9.4479748	721	9.9822016	61	9.4657732	782	0.5342268	30	
18	0	9.4481909	720	9.9821831	61	9.4660078	781	0.5339922	0	42
	30	9.4484069	719	9.9821647	62	9.4662422	781	0.5337578	30	
19	0	9.4486227	719	9.9821462	62	9.4664765	781	0.5335235	0	41
	30	9.4488384	719	9.9821277	62	9.4667107	781	0.5332893	30	
20	0	9.4490540	718	9.9821092	62	9.4669448	780	0.5330552	0	40
	30	9.4492695	718	9.9820907	62	9.4671783	780	0.5328212	30	
21	0	9.4494849	717	9.9820721	61	9.4674127	780	0.5325873	0	39
	30	9.4497001	717	9.9820536	62	9.4676465	779	0.5323535	30	
22	0	9.4499153	716	9.9820351	62	9.4678802	779	0.5321193	0	38
	30	9.4501303	716	9.9820165	62	9.4681138	778	0.5318862	30	
23	0	9.4503452	716	9.9819979	62	9.4683473	778	0.5316527	0	37
	30	9.4505600	715	9.9819794	62	9.4685806	778	0.5314194	30	
24	0	9.4507747	715	9.9819608	62	9.4688139	777	0.5311861	0	36
	30	9.4509892	715	9.9819422	62	9.4690470	777	0.5309530	30	
25	0	9.4512037	714	9.9819236	62	9.4692801	776	0.5307199	0	35
	30	9.4514180	714	9.9819050	63	9.4695130	777	0.5304870	30	
26	0	9.4516322	714	9.9818863	62	9.4697459	776	0.5302541	0	34
	30	9.4518463	713	9.9818677	62	9.4699786	776	0.5300214	30	
27	0	9.4520603	713	9.9818490	62	9.4702112	776	0.5297888	0	33
	30	9.4522742	712	9.9818304	62	9.4704438	775	0.5295562	30	
28	0	9.4524879	712	9.9818117	62	9.4706762	774	0.5293238	0	32
	30	9.4527016	712	9.9817931	63	9.4709085	774	0.5290915	30	
29	0	9.4529151	711	9.9817744	63	9.4711407	774	0.5288593	0	31
	30	9.4531285	711	9.9817557	63	9.4713728	774	0.5286272	30	
30	0	9.4533418		9.9817370		9.4716048		0.5283952	0	30
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

73 deg.  
19\*

16 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.4533418	711	9.9817370	63	9.4716048	774	0.5283952	0	30
	30	9.4535550	710	9.9817182	62	9.4718367	773	0.5281633	30	
31	0	9.4537681	710	9.9816995	62	9.4720685	773	0.5279315	0	29
	30	9.4539810	710	9.9816808	63	9.4723002	772	0.5276998	30	
32	0	9.4541939	709	9.9816620	62	9.4725318	772	0.5274682	0	28
	30	9.4544066	709	9.9816433	63	9.4727633	772	0.5272367	30	
33	0	9.4546192	709	9.9816245	62	9.4729947	771	0.5270053	0	27
	30	9.4548317	708	9.9816057	62	9.4732260	770	0.5267740	30	
34	0	9.4550441	708	9.9815870	63	9.4734572	770	0.5265428	0	26
	30	9.4552564	707	9.9815682	63	9.4736882	770	0.5263118	30	
35	0	9.4554686	707	9.9815494	63	9.4739192	770	0.5260808	0	25
	30	9.4556806	707	9.9815305	62	9.4741501	769	0.5258499	30	
36	0	9.4558925	706	9.9815117	63	9.4743808	769	0.5256192	0	24
	30	9.4561044	706	9.9814929	63	9.4746115	769	0.5253885	30	
37	0	9.4563161	705	9.9814740	62	9.4748421	768	0.5251579	0	23
	30	9.4565277	705	9.9814552	63	9.4750725	768	0.5249275	30	
38	0	9.4567392	705	9.9814363	63	9.4753029	767	0.5246971	0	22
	30	9.4569506	704	9.9814174	63	9.4755331	768	0.5244667	30	
39	0	9.4571618	704	9.9813986	63	9.4757633	767	0.5242367	0	21
	30	9.4573730	704	9.9813797	63	9.4759933	767	0.5240067	30	
40	0	9.4575840	704	9.9813608	63	9.4762233	766	0.5237767	0	20
	30	9.4577950	703	9.9813418	63	9.4764531	766	0.5235469	30	
41	0	9.4580058	702	9.9813229	63	9.4766829	765	0.5233171	0	19
	30	9.4582165	702	9.9813040	63	9.4769125	765	0.5230875	30	
42	0	9.4584271	702	9.9812850	63	9.4771421	765	0.5228579	0	18
	30	9.4586376	701	9.9812661	63	9.4773715	765	0.5226285	30	
43	0	9.4588480	701	9.9812471	63	9.4776009	764	0.5223991	0	17
	30	9.4590582	701	9.9812281	63	9.4778301	764	0.5221699	30	
44	0	9.4592684	700	9.9812091	63	9.4780592	764	0.5219408	0	16
	30	9.4594784	700	9.9811902	64	9.4782883	763	0.5217117	30	
45	0	9.4596884	699	9.9811711	63	9.4785172	763	0.5214828	0	15
	30	9.4598982	699	9.9811521	63	9.4787460	763	0.5212540	30	
46	0	9.4601079	699	9.9811331	63	9.4789748	762	0.5210252	0	14
	30	9.4603175	698	9.9811141	64	9.4792034	762	0.5207966	30	
47	0	9.4605270	698	9.9810950	63	9.4794319	762	0.5205681	0	13
	30	9.4607364	697	9.9810760	64	9.4796604	761	0.5203396	30	
48	0	9.4609456	698	9.9810569	64	9.4798887	761	0.5201113	0	12
	30	9.4611548	697	9.9810378	63	9.4801170	760	0.5198830	30	
49	0	9.4613638	697	9.9810187	63	9.4803451	760	0.5196549	0	11
	30	9.4615728	696	9.9809996	63	9.4805731	760	0.5194269	30	
50	0	9.4617816	696	9.9809805	63	9.4808011	759	0.5191989	0	10
	30	9.4619903	696	9.9809614	63	9.4810289	759	0.5189711	30	
51	0	9.4621989	695	9.9809423	64	9.4812566	759	0.5187434	0	9
	30	9.4624074	695	9.9809232	64	9.4814843	758	0.5185157	30	
52	0	9.4626158	695	9.9809040	64	9.4817118	758	0.5182882	0	8
	30	9.4628241	694	9.9808849	64	9.4819393	757	0.5180607	30	
53	0	9.4630323	694	9.9808657	64	9.4821666	758	0.5178334	0	7
	30	9.4632404	693	9.9808465	64	9.4823938	758	0.5176062	30	
54	0	9.4634483	693	9.9808273	64	9.4826210	757	0.5173790	0	6
	30	9.4636562	692	9.9808081	64	9.4828480	757	0.5171520	30	
55	0	9.4638639	692	9.9807889	64	9.4830750	756	0.5169250	0	5
	30	9.4640715	692	9.9807697	64	9.4833018	756	0.5166982	30	
56	0	9.4642790	692	9.9807505	64	9.4835286	755	0.5164714	0	4
	30	9.4644865	691	9.9807313	65	9.4837552	755	0.5162448	30	
57	0	9.4646938	690	9.9807120	64	9.4839818	755	0.5160182	0	3
	30	9.4649010	690	9.9806927	64	9.4842082	755	0.5157918	30	
58	0	9.4651081	690	9.9806735	64	9.4844346	754	0.5155654	0	2
	30	9.4653150	690	9.9806542	64	9.4846608	754	0.5153392	30	
59	0	9.4655219	689	9.9806349	64	9.4848870	754	0.5151130	0	1
	30	9.4657287	689	9.9806156	64	9.4851131	753	0.5148869	30	
60	0	9.4659353		9.9805963		9.4853390		0.5146610	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

73 deg.



17 deg.

	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	o	9.4659353	689	9.9805963	64	9.4853330	753	0.5146610	o	60
	30	9.4661419	688	9.9805770	64	9.4855642	753	0.5144351	o	30
1	o	9.4663483	688	9.9805577	65	9.4857707	752	0.5142093	o	59
	30	9.4665547	687	9.9805383	64	9.4860163	752	0.5139837	o	30
2	o	9.4667609	687	9.9805190	65	9.4862419	752	0.5137581	o	58
	30	9.4669670	687	9.9804996	64	9.4864674	751	0.5135326	o	30
3	o	9.4671730	687	9.9804803	65	9.4866928	751	0.5133072	o	57
	30	9.4673789	687	9.9804609	65	9.4869181	750	0.5130819	o	30
4	o	9.4675848	685	9.9804415	65	9.4871433	750	0.5128567	o	56
	30	9.4677904	686	9.9804221	65	9.4873683	751	0.5126317	o	30
5	o	9.4679960	685	9.9804027	65	9.4875933	750	0.5124067	o	55
	30	9.4682015	685	9.9803833	65	9.4878182	750	0.5121818	o	30
6	o	9.4684069	684	9.9803639	65	9.4880430	750	0.5119570	o	54
	30	9.4686122	684	9.9803444	65	9.4882677	749	0.5117323	o	30
7	o	9.4688173	684	9.9803250	65	9.4884924	748	0.5115076	o	53
	30	9.4690224	683	9.9803055	65	9.4887169	748	0.5112831	o	30
8	o	9.4692273	683	9.9802860	64	9.4889413	748	0.5110587	o	52
	30	9.4694322	682	9.9802666	65	9.4891656	748	0.5108344	o	30
9	o	9.4696369	682	9.9802471	65	9.4893898	748	0.5106102	o	51
	30	9.4698416	681	9.9802276	65	9.4896140	747	0.5103860	o	30
10	o	9.4700461	681	9.9802081	65	9.4898380	747	0.5101620	o	50
	30	9.4702505	681	9.9801886	66	9.4900620	746	0.5099380	o	30
11	o	9.4704548	681	9.9801690	65	9.4902858	746	0.5097142	o	49
	30	9.4706590	681	9.9801495	65	9.4905096	745	0.5094904	o	30
12	o	9.4708631	681	9.9801299	65	9.4907332	745	0.5092668	o	48
	30	9.4710671	680	9.9801104	65	9.4909568	745	0.5090432	o	30
13	o	9.4712710	680	9.9800908	65	9.4911802	745	0.5088193	o	47
	30	9.4714748	679	9.9800712	65	9.4914036	744	0.5085954	o	30
14	o	9.4716785	679	9.9800516	65	9.4916269	744	0.5083731	o	46
	30	9.4718821	678	9.9800320	65	9.4918501	743	0.5081499	o	30
15	o	9.4720856	678	9.9800124	65	9.4920731	744	0.5079269	o	45
	30	9.4722890	677	9.9799928	65	9.4922961	744	0.5077039	o	30
16	o	9.4724922	678	9.9799732	66	9.4925190	743	0.5074810	o	44
	30	9.4726954	677	9.9799536	66	9.4927418	743	0.5072582	o	30
17	o	9.4728985	677	9.9799339	65	9.4929646	742	0.5070354	o	43
	30	9.4731014	676	9.9799142	65	9.4931872	742	0.5068128	o	30
18	o	9.4733043	676	9.9798946	66	9.4934097	741	0.5065903	o	42
	30	9.4735070	676	9.9798749	66	9.4936321	741	0.5063679	o	30
19	o	9.4737097	675	9.9798552	66	9.4938545	740	0.5061455	o	41
	30	9.4739122	675	9.9798355	66	9.4940767	741	0.5059233	o	30
20	o	9.4741146	675	9.9798158	66	9.4942988	741	0.5057012	o	40
	30	9.4743170	674	9.9797961	66	9.4945209	740	0.5054791	o	30
21	o	9.4745192	674	9.9797764	66	9.4947429	739	0.5052571	o	39
	30	9.4747213	674	9.9797566	65	9.4949647	740	0.5050353	o	30
22	o	9.4749234	673	9.9797369	66	9.4951865	739	0.5048135	o	38
	30	9.4751253	673	9.9797171	66	9.4954082	739	0.5045918	o	30
23	o	9.4753271	673	9.9796973	66	9.4956298	738	0.5043702	o	37
	30	9.4755288	672	9.9796776	66	9.4958513	738	0.5041487	o	30
24	o	9.4757304	672	9.9796578	66	9.4960727	737	0.5039273	o	36
	30	9.4759319	672	9.9796380	66	9.4962940	737	0.5037060	o	30
25	o	9.4761334	671	9.9796182	66	9.4965152	737	0.5034848	o	35
	30	9.4763347	670	9.9795983	66	9.4967363	737	0.5032637	o	30
26	o	9.4765359	670	9.9795785	66	9.4969574	736	0.5030426	o	34
	30	9.4767370	670	9.9795587	66	9.4971783	736	0.5028217	o	30
27	o	9.4769380	669	9.9795388	65	9.4973991	736	0.5026009	o	33
	30	9.4771389	669	9.9795190	67	9.4976199	736	0.5023801	o	30
28	o	9.4773396	670	9.9794991	66	9.4978406	735	0.5021594	o	32
	30	9.4775403	669	9.9794792	66	9.4980611	735	0.5019383	o	30
29	o	9.4777409	669	9.9794593	66	9.4982816	735	0.5017184	o	31
	30	9.4779414	668	9.9794394	65	9.4985020	734	0.5014980	o	30
30	o	9.4781418		9.9794195		9.4987223		0.5012777	o	30
			10"		10"		10"			
	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

72 deg.

17 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.4781418	668	9.9794195	66	9.4987223	734	0.5012777	0	30
30	30	9.4783421	667	9.9793996	67	9.4989425	734	0.5015575	30	
31	0	9.4785423	667	9.9793796	66	9.4991626	734	0.5008374	0	29
31	30	9.4787424	666	9.9793597	66	9.4993826	734	0.5006174	30	
32	0	9.4789423	667	9.9793398	67	9.4996026	733	0.5003974	0	28
32	30	9.4791422	666	9.9793198	67	9.4998224	733	0.5001776	30	
33	0	9.4793420	666	9.9792998	66	9.5000422	732	0.4999578	0	27
33	30	9.4795417	665	9.9792798	66	9.5002618	732	0.4997382	30	
34	0	9.4797412	665	9.9792599	67	9.5004814	732	0.4995186	0	26
34	30	9.4799407	665	9.9792398	66	9.5007009	731	0.4992991	30	
35	0	9.4801401	664	9.9792198	66	9.5009203	731	0.4990797	0	25
35	30	9.4803394	664	9.9791998	67	9.5011395	730	0.4988604	30	
36	0	9.4805385	664	9.9791798	67	9.5013588	730	0.4986412	0	24
36	30	9.4807376	664	9.9791597	66	9.5015779	730	0.4984221	30	
37	0	9.4809366	663	9.9791397	67	9.5017969	730	0.4982031	0	23
37	30	9.4811355	662	9.9791196	67	9.5020158	730	0.4979842	30	
38	0	9.4813342	663	9.9790996	67	9.5022347	729	0.4977653	0	22
38	30	9.4815322	662	9.9790795	67	9.5024534	729	0.4975466	30	
39	0	9.4817315	661	9.9790594	67	9.5026721	729	0.4973279	0	21
39	30	9.4819299	662	9.9790393	67	9.5028907	728	0.4971093	30	
40	0	9.4821283	661	9.9790192	67	9.5031092	728	0.4968908	0	20
40	30	9.4823266	661	9.9789990	67	9.5033276	727	0.4966724	30	
41	0	9.4825248	660	9.9789789	67	9.5035459	727	0.4964541	0	19
41	30	9.4827228	660	9.9789588	68	9.5037641	727	0.4962359	30	
42	0	9.4829208	660	9.9789386	67	9.5039822	727	0.4960178	0	18
42	30	9.4831187	659	9.9789184	67	9.5042002	727	0.4957998	30	
43	0	9.4833165	659	9.9788983	68	9.5044182	726	0.4955818	0	17
43	30	9.4835141	659	9.9788781	67	9.5046361	726	0.4953639	30	
44	0	9.4837117	659	9.9788579	67	9.5048538	726	0.4951462	0	16
44	30	9.4839092	658	9.9788377	68	9.5050715	725	0.4949285	30	
45	0	9.4841066	657	9.9788175	68	9.5052891	725	0.4947109	0	15
45	30	9.4843038	658	9.9787972	67	9.5055066	725	0.4944934	30	
46	0	9.4845010	657	9.9787770	67	9.5057240	725	0.4942750	0	14
46	30	9.4846981	657	9.9787568	68	9.5059413	725	0.4940587	30	
47	0	9.4848951	656	9.9787365	67	9.5061586	724	0.4938414	0	13
47	30	9.4850920	656	9.9787162	67	9.5063757	724	0.4936243	30	
48	0	9.4852888	655	9.9786960	68	9.5065928	723	0.4934072	0	12
48	30	9.4854855	655	9.9786757	68	9.5068098	723	0.4931902	30	
49	0	9.4856820	656	9.9786554	68	9.5070267	722	0.4929733	0	11
49	30	9.4858785	655	9.9786351	68	9.5072435	722	0.4927565	30	
50	0	9.4860749	655	9.9786148	68	9.5074602	722	0.4925398	0	10
50	30	9.4862712	654	9.9785944	67	9.5076768	722	0.4923232	30	
51	0	9.4864674	654	9.9785741	68	9.5078933	722	0.4921067	0	9
51	30	9.4866635	654	9.9785538	68	9.5081098	721	0.4918902	30	
52	0	9.4868595	653	9.9785334	68	9.5083261	721	0.4916739	0	8
52	30	9.4870554	653	9.9785130	68	9.5085424	721	0.4914576	30	
53	0	9.4872512	653	9.9784927	68	9.5087586	720	0.4912414	0	7
53	30	9.4874470	652	9.9784723	68	9.5089747	720	0.4910253	30	
54	0	9.4876426	652	9.9784519	68	9.5091907	720	0.4908093	0	6
54	30	9.4878381	651	9.9784315	68	9.5094066	720	0.4905934	30	
55	0	9.4880335	651	9.9784111	69	9.5096224	720	0.4903776	0	5
55	30	9.4882288	651	9.9783906	68	9.5098382	719	0.4901618	30	
56	0	9.4884240	651	9.9783702	68	9.5100539	718	0.4899461	0	4
56	30	9.4886192	650	9.9783497	68	9.5102694	719	0.4897306	30	
57	0	9.4888142	650	9.9783293	68	9.5104849	718	0.4895151	0	3
57	30	9.4890091	650	9.9783088	68	9.5107003	718	0.4892997	30	
58	0	9.4892040	649	9.9782883	68	9.5109156	718	0.4890844	0	2
58	30	9.4893987	649	9.9782679	69	9.5111309	717	0.4888691	30	
59	0	9.4895934	648	9.9782474	69	9.5113460	717	0.4886540	0	1
59	30	9.4897879	648	9.9782268	68	9.5115611	716	0.4884389	30	
60	0	9.4899824	10''	9.9782063	10''	9.5117760	10''	0.4882240	0	0
'	''	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	''	'

72 deg.

18 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.4899824	648	9.9782063	68	9.5117760	717	0.4832240	0	60
	30	9.4901767	648	9.9781858	68	9.5119309	716	0.4880091	30	
1	0	9.4903710	647	9.9781653	69	9.5122057	716	0.4877943	0	59
	30	9.4905651	647	9.9781447	68	9.5124204	716	0.4875795	30	
2	0	9.4907592	647	9.9781241	68	9.5126351	715	0.4873649	0	58
	30	9.4909532	646	9.9781036	69	9.5128496	715	0.4871504	30	
3	0	9.4911471	646	9.9780830	69	9.5130641	714	0.4869359	0	57
	30	9.4913408	646	9.9780624	69	9.5132784	715	0.4867216	30	
4	0	9.4915345	646	9.9780418	69	9.5134927	714	0.4865073	0	56
	30	9.4917281	645	9.9780212	69	9.5137069	714	0.4862931	30	
5	0	9.4919216	645	9.9780006	69	9.5139210	714	0.4860790	0	55
	30	9.4921150	644	9.9779799	68	9.5141351	713	0.4858649	30	
6	0	9.4923083	644	9.9779593	68	9.5143490	713	0.4856510	0	54
	30	9.4925015	644	9.9779387	69	9.5145632	712	0.4854371	30	
7	0	9.4926946	644	9.9779180	69	9.5147766	713	0.4852234	0	53
	30	9.4928876	644	9.9778973	69	9.5149903	712	0.4850097	30	
8	0	9.4930806	643	9.9778766	69	9.5152039	712	0.4847961	0	52
	30	9.4932734	642	9.9778560	69	9.5154174	712	0.4845826	30	
9	0	9.4934661	643	9.9778353	69	9.5156309	711	0.4843691	0	51
	30	9.4936588	642	9.9778145	69	9.5158442	711	0.4841558	30	
10	0	9.4938513	642	9.9777938	69	9.5160575	711	0.4839425	0	50
	30	9.4940438	641	9.9777731	69	9.5162707	710	0.4837293	30	
11	0	9.4942361	641	9.9777523	69	9.5164838	710	0.4835162	0	49
	30	9.4944284	640	9.9777316	69	9.5166968	710	0.4833032	30	
12	0	9.4946205	641	9.9777108	69	9.5169097	710	0.4830903	0	48
	30	9.4948126	640	9.9776901	70	9.5171226	709	0.4828774	30	
13	0	9.4950046	640	9.9776693	70	9.5173353	709	0.4826647	0	47
	30	9.4951965	639	9.9776485	70	9.5175480	709	0.4824520	30	
14	0	9.4953883	639	9.9776277	70	9.5177606	708	0.4822394	0	46
	30	9.4955800	638	9.9776069	70	9.5179731	708	0.4820267	30	
15	0	9.4957716	638	9.9775860	69	9.5181855	708	0.4818145	0	45
	30	9.4959631	638	9.9775652	69	9.5183977	707	0.4816021	30	
16	0	9.4961545	638	9.9775445	69	9.5186101	708	0.4813899	0	44
	30	9.4963458	638	9.9775235	70	9.5188223	707	0.4811777	30	
17	0	9.4965370	638	9.9775026	69	9.5190344	707	0.4809656	0	43
	30	9.4967282	637	9.9774818	70	9.5192464	707	0.4807536	30	
18	0	9.4969192	637	9.9774609	70	9.5194583	707	0.4805417	0	42
	30	9.4971102	636	9.9774400	70	9.5196702	706	0.4803298	30	
19	0	9.4973010	636	9.9774191	70	9.5198819	706	0.4801181	0	41
	30	9.4974918	635	9.9773982	70	9.5200936	706	0.4799064	30	
20	0	9.4976824	636	9.9773772	69	9.5203052	705	0.4796948	0	40
	30	9.4978730	635	9.9773563	70	9.5205167	705	0.4794833	30	
21	0	9.4980635	635	9.9773354	70	9.5207282	704	0.4792718	0	39
	30	9.4982539	634	9.9773144	70	9.5209395	704	0.4790605	30	
22	0	9.4984442	634	9.9772934	70	9.5211508	704	0.4788492	0	38
	30	9.4986344	634	9.9772725	70	9.5213619	704	0.4786381	30	
23	0	9.4988245	634	9.9772515	70	9.5215730	704	0.4784270	0	37
	30	9.4990145	634	9.9772305	70	9.5217841	703	0.4782159	30	
24	0	9.4992045	633	9.9772095	70	9.5219950	703	0.4780050	0	36
	30	9.4993943	633	9.9771884	70	9.5222059	702	0.4777941	30	
25	0	9.4995840	633	9.9771674	70	9.5224166	703	0.4775834	0	35
	30	9.4997737	632	9.9771464	70	9.5226273	702	0.4773727	30	
26	0	9.4999633	631	9.9771253	70	9.5228379	702	0.4771621	0	34
	30	9.5001527	632	9.9771043	70	9.5230485	701	0.4769515	30	
27	0	9.5003421	631	9.9770832	70	9.5232589	701	0.4767411	0	33
	30	9.5005314	631	9.9770621	70	9.5234693	701	0.4765307	30	
28	0	9.5007206	630	9.9770410	70	9.5236795	701	0.4763205	0	32
	30	9.5009097	630	9.9770199	70	9.5238897	701	0.4761103	30	
29	0	9.5010987	630	9.9769987	70	9.5240999	700	0.4759001	0	31
	30	9.5012876	630	9.9769777	70	9.5243099	700	0.4756901	30	
30	0	9.5014764		9.9769566		9.5245199		0.4754801	0	30
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

71 deg.

18 deg.

'	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
30	0	9.5014764	630	9.9769566	71	9.5245199	699	0.4754801	0	30
	30	9.5016652	629	9.9769354	70	9.5247297	700	0.4752703	0	30
31	0	9.5018538	629	9.9769143	71	9.5249395	699	0.4750605	0	29
	30	9.5020424	628	9.9768931	70	9.5251492	699	0.4748508	0	30
32	0	9.5022308	628	9.9768720	71	9.5253589	698	0.4746411	0	28
	30	9.5024192	628	9.9768508	71	9.5255684	699	0.4744316	0	30
33	0	9.5026075	627	9.9768296	71	9.5257779	698	0.4742221	0	27
	30	9.5027957	627	9.9768084	71	9.5259873	698	0.4740127	0	30
34	0	9.5029838	627	9.9767872	71	9.5261966	698	0.4738034	0	26
	30	9.5031718	626	9.9767660	71	9.5264058	698	0.4735942	0	30
35	0	9.5033597	626	9.9767447	71	9.5266150	697	0.4733850	0	25
	30	9.5035475	626	9.9767235	71	9.5268241	696	0.4731759	0	30
36	0	9.5037353	625	9.9767022	71	9.5270331	696	0.4729669	0	24
	30	9.5039229	626	9.9766810	71	9.5272420	696	0.4727580	0	30
37	0	9.5041105	625	9.9766597	71	9.5274508	696	0.4725492	0	23
	30	9.5042980	624	9.9766384	71	9.5276595	696	0.4723405	0	30
38	0	9.5044853	625	9.9766171	71	9.5278682	696	0.4721318	0	22
	30	9.5046725	624	9.9765958	71	9.5280768	695	0.4719232	0	30
39	0	9.5048598	624	9.9765745	71	9.5282853	695	0.4717147	0	21
	30	9.5050469	624	9.9765532	71	9.5284937	695	0.4715063	0	30
40	0	9.5052339	624	9.9765318	71	9.5287021	694	0.4712979	0	20
	30	9.5054209	623	9.9765105	71	9.5289104	694	0.4710896	0	30
41	0	9.5056077	623	9.9764891	71	9.5291186	693	0.4708814	0	19
	30	9.5057945	622	9.9764678	71	9.5293267	693	0.4706733	0	30
42	0	9.5059811	622	9.9764464	71	9.5295347	693	0.4704653	0	18
	30	9.5061677	622	9.9764250	71	9.5297427	693	0.4702573	0	30
43	0	9.5063542	621	9.9764036	71	9.5299505	693	0.4700495	0	17
	30	9.5065406	621	9.9763822	71	9.5301583	693	0.4698417	0	30
44	0	9.5067269	620	9.9763608	71	9.5303661	692	0.4696339	0	16
	30	9.5069131	620	9.9763394	72	9.5305737	692	0.4694263	0	30
45	0	9.5070992	620	9.9763179	72	9.5307813	691	0.4692187	0	15
	30	9.5072852	620	9.9762965	72	9.5309887	692	0.4690113	0	30
46	0	9.5074712	619	9.9762750	71	9.5311961	692	0.4688039	0	14
	30	9.5076570	620	9.9762536	72	9.5314035	691	0.4685965	0	30
47	0	9.5078428	619	9.9762321	72	9.5316107	691	0.4683893	0	13
	30	9.5080285	619	9.9762106	72	9.5318179	690	0.4681821	0	30
48	0	9.5082141	618	9.9761891	72	9.5320250	690	0.4679750	0	12
	30	9.5083996	618	9.9761676	72	9.5322320	690	0.4677680	0	30
49	0	9.5085855	618	9.9761461	72	9.5324389	690	0.4675611	0	11
	30	9.5087703	618	9.9761245	71	9.5326458	689	0.4673542	0	30
50	0	9.5089556	617	9.9761030	72	9.5328526	689	0.4671474	0	10
	30	9.5091407	617	9.9760815	72	9.5330593	688	0.4669407	0	30
51	0	9.5093258	616	9.9760599	72	9.5332659	688	0.4667341	0	9
	30	9.5095107	617	9.9760383	72	9.5334724	689	0.4665276	0	30
52	0	9.5096956	616	9.9760167	72	9.5336789	688	0.4663211	0	8
	30	9.5098804	616	9.9759952	72	9.5338853	682	0.4661147	0	30
53	0	9.5100651	616	9.9759736	72	9.5340916	687	0.4659084	0	7
	30	9.5102498	615	9.9759519	72	9.5342978	688	0.4657022	0	30
54	0	9.5104343	615	9.9759303	72	9.5345040	687	0.4654960	0	6
	30	9.5106187	615	9.9759087	72	9.5347101	686	0.4652899	0	30
55	0	9.5108031	614	9.9758870	72	9.5349161	686	0.4650839	0	5
	30	9.5109874	614	9.9758654	72	9.5351220	686	0.4648780	0	30
56	0	9.5111716	613	9.9758437	72	9.5353278	686	0.4646722	0	4
	30	9.5113557	613	9.9758221	73	9.5355336	685	0.4644664	0	30
57	0	9.5115397	613	9.9758004	73	9.5357393	685	0.4642607	0	3
	30	9.5117236	613	9.9757787	72	9.5359449	685	0.4640551	0	30
58	0	9.5119074	613	9.9757570	73	9.5361505	685	0.4638495	0	2
	30	9.5120912	612	9.9757353	73	9.5363559	685	0.4636441	0	30
59	0	9.5122749	612	9.9757136	72	9.5365613	685	0.4634387	0	1
	30	9.5124584	612	9.9756918	72	9.5367666	684	0.4632334	0	30
60	0	9.5126419		9.9756701		9.5369719		0.4630281	0	0
'	"	l. cosin.	diff. 10"	l. sin.	d. 10"	l. cotan.	diff. 10"	l. tang.	"	'

71 deg.



19 deg.

/	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	"	/
0	o	9.5126419	612	9.9755701	73	9.5369719	683	0.4630281	o	60
	30	9.5128253	611	9.9755683	72	9.5371770	684	0.4628230	30	
1	o	9.5130086	611	9.9755665	72	9.5373821	683	0.4626179	o	59
	30	9.5131919	610	9.9755648	73	9.5375871	683	0.4624129	30	
2	o	9.5133753	610	9.9755630	73	9.5377920	683	0.4622080	o	58
	30	9.5135581	610	9.9755612	73	9.5379969	682	0.4620031	30	
3	o	9.5137410	610	9.9755594	73	9.5382017	682	0.4617983	o	57
	30	9.5139239	610	9.9755576	73	9.5384064	682	0.4615936	30	
4	o	9.5141067	609	9.9755557	72	9.5386110	682	0.4613890	o	56
	30	9.5142894	609	9.9755539	73	9.5388155	682	0.4611845	30	
5	o	9.5144721	608	9.9755521	73	9.5390200	681	0.4609800	o	55
	30	9.5146546	608	9.9755502	73	9.5392244	681	0.4607755	30	
6	o	9.5148371	608	9.9755483	73	9.5394287	681	0.4605713	o	54
	30	9.5150194	608	9.9755465	73	9.5396330	680	0.4603670	30	
7	o	9.5152017	607	9.9755446	73	9.5398371	681	0.4601629	o	53
	30	9.5153839	607	9.9755427	73	9.5400412	681	0.4599588	30	
8	o	9.5155660	607	9.9755408	74	9.5402453	679	0.4597547	o	52
	30	9.5157480	607	9.9755388	73	9.5404492	680	0.4595508	30	
9	o	9.5159300	606	9.9755369	73	9.5406531	679	0.4593469	o	51
	30	9.5161118	606	9.9755350	73	9.5408569	679	0.4591431	30	
10	o	9.5162936	606	9.9755330	73	9.5410606	679	0.4589394	o	50
	30	9.5164753	605	9.9755311	74	9.5412642	679	0.4587358	30	
11	o	9.5166569	605	9.9755291	73	9.5414678	678	0.4585322	o	49
	30	9.5168384	605	9.9755271	73	9.5416713	678	0.4583287	30	
12	o	9.5170198	605	9.9755251	73	9.5418747	678	0.4581253	o	48
	30	9.5172012	604	9.9755231	73	9.5420781	677	0.4579219	30	
13	o	9.5173824	604	9.9755210	73	9.5422813	678	0.4577187	o	47
	30	9.5175636	604	9.9755191	74	9.5424845	677	0.4575155	30	
14	o	9.5177447	603	9.9755170	73	9.5426877	677	0.4573123	o	46
	30	9.5179257	603	9.9755150	73	9.5428907	677	0.4571093	30	
15	o	9.5181066	603	9.9755129	73	9.5430937	676	0.4569063	o	45
	30	9.5182875	602	9.9749209	74	9.5432966	676	0.4567034	30	
16	o	9.5184682	602	9.9749188	74	9.5434994	676	0.4565006	o	44
	30	9.5186489	602	9.9749167	73	9.5437022	675	0.4562978	30	
17	o	9.5188295	601	9.9749146	73	9.5439048	676	0.4560952	o	43
	30	9.5190100	601	9.9749125	73	9.5441074	676	0.4558926	30	
18	o	9.5191904	601	9.9748804	74	9.5443100	675	0.4556900	o	42
	30	9.5193707	601	9.9748583	74	9.5445124	675	0.4554876	30	
19	o	9.5195510	600	9.9748361	73	9.5447148	674	0.4552852	o	41
	30	9.5197311	600	9.9748140	74	9.5449171	674	0.4550829	30	
20	o	9.5199112	600	9.9747918	73	9.5451193	674	0.4548807	o	40
	30	9.5200912	600	9.9747697	74	9.5453215	674	0.4546785	30	
21	o	9.5202711	600	9.9747475	74	9.5455236	673	0.4544764	o	39
	30	9.5204509	600	9.9747253	74	9.5457256	673	0.4542744	30	
22	o	9.5206307	599	9.9747031	74	9.5459276	673	0.4540724	o	38
	30	9.5208103	599	9.9746809	74	9.5461294	673	0.4538706	30	
23	o	9.5209899	598	9.9746587	74	9.5463312	673	0.4536688	o	37
	30	9.5211694	598	9.9746365	74	9.5465329	673	0.4534671	30	
24	o	9.5213488	598	9.9746142	74	9.5467346	672	0.4532654	o	36
	30	9.5215281	598	9.9745920	74	9.5469362	671	0.4530638	30	
25	o	9.5217074	597	9.9745697	74	9.5471377	671	0.4528623	o	35
	30	9.5218865	597	9.9745474	74	9.5473391	671	0.4526609	30	
26	o	9.5220656	597	9.9745252	75	9.5475405	671	0.4524595	o	34
	30	9.5222446	597	9.9745029	75	9.5477417	671	0.4522583	30	
27	o	9.5224235	596	9.9744806	75	9.5479430	670	0.4520570	o	33
	30	9.5226024	596	9.9744583	75	9.5481441	670	0.4518559	30	
28	o	9.5227811	595	9.9744359	74	9.5483452	670	0.4516548	o	32
	30	9.5229598	595	9.9744136	74	9.5485462	669	0.4514538	30	
29	o	9.5231383	595	9.9743913	75	9.5487471	669	0.4512529	o	31
	30	9.5233168	595	9.9743689	74	9.5489479	669	0.4510521	30	
30	o	9.5234953		9.9743466		9.5491487		0.4508513	o	30
/	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	/

19 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	°	'
30	0	9.5234953	594	9.9743466	75	9.5491487	669	0.4508513	0	30
	30	9.5236736	594	9.9743242	75	9.5493594	669	0.4506506	30	
31	0	9.5238518	594	9.9743018	75	9.5495800	669	0.4504500	0	29
	30	9.5240300	594	9.9742794	75	9.5497506	668	0.4502494	30	
32	0	9.5242081	593	9.9742570	75	9.5499511	668	0.4500489	0	28
	30	9.5243861	593	9.9742346	75	9.5501515	668	0.4498485	30	
33	0	9.5245640	593	9.9742122	75	9.5503519	667	0.4496481	0	27
	30	9.5247419	592	9.9741897	75	9.5505521	668	0.4494479	30	
34	0	9.5249196	593	9.9741673	75	9.5507523	668	0.4492477	0	26
	30	9.5250973	592	9.9741448	75	9.5509525	667	0.4490475	30	
35	0	9.5252749	592	9.9741224	75	9.5511525	667	0.4488475	0	25
	30	9.5254524	592	9.9740999	75	9.5513525	667	0.4486475	30	
36	0	9.5256298	592	9.9740774	75	9.5515524	667	0.4484476	0	24
	30	9.5258072	591	9.9740549	75	9.5517523	666	0.4482477	30	
37	0	9.5259844	591	9.9740324	75	9.5519521	665	0.4480479	0	23
	30	9.5261616	591	9.9740099	75	9.5521518	665	0.4478482	30	
38	0	9.5263387	591	9.9739873	75	9.5523514	665	0.4476486	0	22
	30	9.5265158	589	9.9739648	75	9.5525510	665	0.4474490	30	
39	0	9.5266927	590	9.9739422	75	9.5527504	665	0.4472496	0	21
	30	9.5268696	589	9.9739197	75	9.5529499	664	0.4470501	30	
40	0	9.5270463	589	9.9738971	75	9.5531492	665	0.4468508	0	20
	30	9.5272230	589	9.9738745	75	9.5533485	664	0.4466515	30	
41	0	9.5273997	588	9.9738519	75	9.5535477	664	0.4464523	0	19
	30	9.5275762	588	9.9738293	75	9.5537468	664	0.4462532	30	
42	0	9.5277526	588	9.9738067	75	9.5539459	663	0.4460541	0	18
	30	9.5279290	588	9.9737841	75	9.5541449	663	0.4458550	30	
43	0	9.5281053	588	9.9737615	76	9.5543438	663	0.4456556	0	17
	30	9.5282815	587	9.9737388	75	9.5545427	663	0.4454573	30	
44	0	9.5284577	586	9.9737162	76	9.5547415	662	0.4452585	0	16
	30	9.5286337	587	9.9736935	75	9.5549402	662	0.4450598	30	
45	0	9.5288097	586	9.9736709	76	9.5551388	662	0.4448612	0	15
	30	9.5289856	586	9.9736482	76	9.5553374	662	0.4446626	30	
46	0	9.5291614	586	9.9736255	76	9.5555359	662	0.4444641	0	14
	30	9.5293371	586	9.9736028	76	9.5557343	662	0.4442657	30	
47	0	9.5295128	585	9.9735801	76	9.5559327	661	0.4440673	0	13
	30	9.5296883	585	9.9735573	75	9.5561310	661	0.4438690	30	
48	0	9.5298638	585	9.9735346	76	9.5563292	661	0.4436708	0	12
	30	9.5300392	585	9.9735118	75	9.5565274	660	0.4434726	30	
49	0	9.5302146	584	9.9734891	76	9.5567255	660	0.4432745	0	11
	30	9.5303898	584	9.9734663	76	9.5569235	660	0.4430765	30	
50	0	9.5305650	583	9.9734435	75	9.5571214	660	0.4428786	0	10
	30	9.5307401	583	9.9734208	76	9.5573193	659	0.4426807	30	
51	0	9.5309151	583	9.9733980	76	9.5575171	659	0.4424829	0	9
	30	9.5310900	583	9.9733752	77	9.5577149	658	0.4422851	30	
52	0	9.5312649	582	9.9733523	76	9.5579125	659	0.4420875	0	8
	30	9.5314396	583	9.9733295	76	9.5581101	659	0.4418899	30	
53	0	9.5316143	582	9.9733067	77	9.5583077	658	0.4416923	0	7
	30	9.5317889	582	9.9732838	76	9.5585051	658	0.4414949	30	
54	0	9.5319635	581	9.9732610	77	9.5587025	658	0.4412975	0	6
	30	9.5321379	581	9.9732381	76	9.5588998	658	0.4411002	30	
55	0	9.5323123	581	9.9732152	76	9.5590971	657	0.4409029	0	5
	30	9.5324866	581	9.9731923	76	9.5592943	657	0.4407057	30	
56	0	9.5326608	581	9.9731694	76	9.5594914	657	0.4405086	0	4
	30	9.5328349	580	9.9731465	76	9.5596884	657	0.4403116	30	
57	0	9.5330090	580	9.9731236	77	9.5598854	657	0.4401146	0	3
	30	9.5331830	579	9.9731006	76	9.5600823	657	0.4399177	30	
58	0	9.5333569	579	9.9730777	77	9.5602792	656	0.4397208	0	2
	30	9.5335307	579	9.9730547	76	9.5604760	655	0.4395240	30	
59	0	9.5337044	579	9.9730318	77	9.5606727	655	0.4393273	0	1
	30	9.5338781	579	9.9730088	77	9.5608693	655	0.4391307	30	
60	0	9.5340517		9.9729858		9.5610669		0.4389341	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	°	'

70 deg.

20 deg.

°	'	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	'	°
0	0	9.5340517	578	9.9729858	76	9.5610659	655	0.4389341	0	60
	30	9.5342252	578	9.9729628	76	9.5612524	655	0.4387376	30	
1	0	9.5343786	578	9.9729398	77	9.5614588	655	0.4385412	0	59
	30	9.5345720	578	9.9729168	77	9.5616552	654	0.4383448	30	
2	0	9.5347452	578	9.9728938	77	9.5618515	654	0.4381485	0	58
	30	9.5349184	577	9.9728707	76	9.5620477	654	0.4379523	30	
3	0	9.5350915	577	9.9728477	77	9.5622439	653	0.4377551	0	57
	30	9.5352646	577	9.9728246	77	9.5624400	653	0.4375500	30	
4	0	9.5354375	577	9.9728016	77	9.5626360	653	0.4373540	0	56
	30	9.5356104	576	9.9727785	77	9.5628319	653	0.4371581	30	
5	0	9.5357832	576	9.9727554	77	9.5630278	653	0.4369722	0	55
	30	9.5359560	575	9.9727323	77	9.5632237	652	0.4367763	30	
6	0	9.5361286	575	9.9727092	77	9.5634194	653	0.4365806	0	54
	30	9.5363012	575	9.9726861	77	9.5636151	652	0.4363849	30	
7	0	9.5364737	574	9.9726629	77	9.5638107	652	0.4361893	0	53
	30	9.5366461	574	9.9726398	77	9.5640063	652	0.4359937	30	
8	0	9.5368184	574	9.9726166	77	9.5642018	651	0.4357982	0	52
	30	9.5369907	574	9.9725935	77	9.5643972	651	0.4356028	30	
9	0	9.5371629	573	9.9725703	77	9.5645925	650	0.4354075	0	51
	30	9.5373350	573	9.9725471	77	9.5647878	651	0.4352122	30	
10	0	9.5375070	573	9.9725239	77	9.5649831	650	0.4350169	0	50
	30	9.5376789	573	9.9725007	77	9.5651782	650	0.4348218	30	
11	0	9.5378508	573	9.9724775	77	9.5653733	650	0.4346267	0	49
	30	9.5380226	572	9.9724543	78	9.5655683	650	0.4344317	30	
12	0	9.5381943	572	9.9724310	77	9.5657633	649	0.4342367	0	48
	30	9.5383660	572	9.9724078	77	9.5659582	649	0.4340418	30	
13	0	9.5385375	572	9.9723845	77	9.5661530	649	0.4338470	0	47
	30	9.5387090	572	9.9723613	78	9.5663477	649	0.4336523	30	
14	0	9.5388804	571	9.9723380	78	9.5665424	649	0.4334576	0	46
	30	9.5390517	571	9.9723147	77	9.5667370	649	0.4332630	30	
15	0	9.5392230	571	9.9722914	78	9.5669316	648	0.4330684	0	45
	30	9.5393942	571	9.9722681	78	9.5671261	648	0.4328739	30	
16	0	9.5395653	570	9.9722448	78	9.5673205	648	0.4326795	0	44
	30	9.5397363	570	9.9722215	78	9.5675148	648	0.4324852	30	
17	0	9.5399073	569	9.9721981	78	9.5677091	647	0.4322909	0	43
	30	9.5400781	570	9.9721748	78	9.5679034	647	0.4320966	30	
18	0	9.5402489	569	9.9721514	78	9.5680975	647	0.4319025	0	42
	30	9.5404197	568	9.9721280	78	9.5682916	647	0.4317084	30	
19	0	9.5405903	569	9.9721047	78	9.5684856	647	0.4315144	0	41
	30	9.5407609	568	9.9720813	78	9.5686796	646	0.4313204	30	
20	0	9.5409314	568	9.9720579	78	9.5688735	646	0.4311265	0	40
	30	9.5411018	568	9.9720345	77	9.5690673	646	0.4309327	30	
21	0	9.5412721	567	9.9720110	78	9.5692611	646	0.4307389	0	39
	30	9.5414424	567	9.9719876	78	9.5694548	645	0.4305452	30	
22	0	9.5416126	567	9.9719642	79	9.5696484	645	0.4303516	0	38
	30	9.5417827	567	9.9719407	78	9.5698420	645	0.4301580	30	
23	0	9.5419527	567	9.9719172	78	9.5700355	645	0.4299645	0	37
	30	9.5421227	566	9.9718938	79	9.5702289	645	0.4297711	30	
24	0	9.5422926	566	9.9718703	79	9.5704223	644	0.4295777	0	36
	30	9.5424624	566	9.9718468	79	9.5706156	644	0.4293844	30	
25	0	9.5426321	566	9.9718233	79	9.5708088	644	0.4291912	0	35
	30	9.5428018	565	9.9717998	79	9.5710020	644	0.4289980	30	
26	0	9.5429713	565	9.9717762	78	9.5711951	644	0.4288049	0	34
	30	9.5431408	565	9.9717527	79	9.5713882	643	0.4286118	30	
27	0	9.5433103	564	9.9717291	78	9.5715811	643	0.4284189	0	33
	30	9.5434796	565	9.9717056	79	9.5717741	643	0.4282259	30	
28	0	9.5436489	564	9.9716820	79	9.5719669	643	0.4280331	0	32
	30	9.5438181	564	9.9716584	78	9.5721597	642	0.4278403	30	
29	0	9.5439873	563	9.9716348	78	9.5723524	642	0.4276476	0	31
	30	9.5441563	563	9.9716112	78	9.5725451	642	0.4274549	30	
30	0	9.5443253		9.9715876		9.5727377		0.4272623	0	30
			10''		10''		10''			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

69 deg.  
20

20 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.5443253	563	9.9715876	78	9.5727377	642	0.4272623	0	30
	30	9.5444942	563	9.9715640	79	9.5729302	642	0.4270698	30	
31	0	9.5446630	563	9.9715404	79	9.5731227	641	0.4268773	0	29
	30	9.5448318	562	9.9715167	79	9.5733151	641	0.4266849	30	
32	0	9.5450005	562	9.9714931	79	9.5735074	641	0.4264926	0	28
	30	9.5451691	562	9.9714694	79	9.5736997	640	0.4263003	30	
33	0	9.5453376	562	9.9714457	79	9.5738919	640	0.4261081	0	27
	30	9.5455061	561	9.9714221	79	9.5740840	641	0.4259160	30	
34	0	9.5456745	561	9.9713984	79	9.5742761	640	0.4257239	0	26
	30	9.5458428	561	9.9713747	80	9.5744681	640	0.4255319	30	
35	0	9.5460110	561	9.9713509	79	9.5746601	639	0.4253399	0	25
	30	9.5461792	560	9.9713272	79	9.5748520	639	0.4251480	30	
36	0	9.5463472	561	9.9713035	79	9.5750438	639	0.4249562	0	24
	30	9.5465153	559	9.9712797	79	9.5752355	639	0.4247645	30	
37	0	9.5466832	560	9.9712560	80	9.5754272	639	0.4245728	0	23
	30	9.5468511	559	9.9712322	79	9.5756189	638	0.4243811	30	
38	0	9.5470189	559	9.9712084	79	9.5758104	639	0.4241896	0	22
	30	9.5471866	559	9.9711846	79	9.5760019	639	0.4239981	30	
39	0	9.5473542	559	9.9711608	79	9.5761934	638	0.4238066	0	21
	30	9.5475218	558	9.9711370	79	9.5763848	637	0.4236152	30	
40	0	9.5476893	558	9.9711132	79	9.5765761	637	0.4234239	0	20
	30	9.5478567	558	9.9710894	80	9.5767673	638	0.4232327	30	
41	0	9.5480240	558	9.9710655	79	9.5769585	637	0.4230415	0	19
	30	9.5481913	558	9.9710417	80	9.5771496	637	0.4228504	30	
42	0	9.5483585	557	9.9710178	79	9.5773407	637	0.4226593	0	18
	30	9.5485255	557	9.9709939	79	9.5775317	637	0.4224683	30	
43	0	9.5486927	557	9.9709701	80	9.5777226	637	0.4222774	0	17
	30	9.5488597	556	9.9709462	80	9.5779135	636	0.4220865	30	
44	0	9.5490266	556	9.9709223	80	9.5781043	636	0.4218956	0	16
	30	9.5491934	556	9.9708983	79	9.5782951	635	0.4217049	30	
45	0	9.5493602	555	9.9708744	80	9.5784858	635	0.4215142	0	15
	30	9.5495269	555	9.9708505	80	9.5786764	635	0.4213230	30	
46	0	9.5496935	555	9.9708265	80	9.5788669	635	0.4211331	0	14
	30	9.5498600	555	9.9708026	80	9.5790574	635	0.4209426	30	
47	0	9.5500265	554	9.9707786	80	9.5792479	634	0.4207521	0	13
	30	9.5501929	554	9.9707546	80	9.5794382	635	0.4205618	30	
48	0	9.5503592	554	9.9707306	80	9.5796286	634	0.4203714	0	12
	30	9.5505254	554	9.9707066	80	9.5798188	634	0.4201812	30	
49	0	9.5506916	554	9.9706826	80	9.5800090	634	0.4199910	0	11
	30	9.5508577	554	9.9706586	80	9.5801991	634	0.4198009	30	
50	0	9.5510237	554	9.9706346	80	9.5803892	633	0.4196108	0	10
	30	9.5511897	553	9.9706105	80	9.5805792	633	0.4194208	30	
51	0	9.5513555	553	9.9705865	80	9.5807691	633	0.4192309	0	9
	30	9.5515214	553	9.9705624	80	9.5809590	633	0.4190410	30	
52	0	9.5516871	553	9.9705383	80	9.5811488	633	0.4188512	0	8
	30	9.5518528	552	9.9705143	81	9.5813385	633	0.4186615	30	
53	0	9.5520184	552	9.9704902	81	9.5815282	633	0.4184718	0	7
	30	9.5521839	552	9.9704661	81	9.5817179	632	0.4182821	30	
54	0	9.5523494	551	9.9704419	80	9.5819074	632	0.4180926	0	6
	30	9.5525148	551	9.9704178	80	9.5820969	632	0.4179031	30	
55	0	9.5526801	550	9.9703937	81	9.5822864	631	0.4177136	0	5
	30	9.5528453	551	9.9703695	80	9.5824758	631	0.4175242	30	
56	0	9.5530105	550	9.9703454	81	9.5826651	631	0.4173349	0	4
	30	9.5531755	551	9.9703212	80	9.5828543	631	0.4171457	30	
57	0	9.5533405	550	9.9702970	80	9.5830435	631	0.4169565	0	3
	30	9.5535055	550	9.9702728	80	9.5832327	630	0.4167673	30	
58	0	9.5536704	549	9.9702485	80	9.5834217	631	0.4165783	0	2
	30	9.5538352	549	9.9702244	80	9.5836108	629	0.4163892	30	
59	0	9.5539999	549	9.9702002	81	9.5837997	630	0.4162003	0	1
	30	9.5541646	548	9.9701760	81	9.5839886	629	0.4160114	30	
60	0	9.5543292		9.9701517		9.5841774		0.4158226	0	0
			10''		10''		10''			
'	''	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	''	'

69 deg.



21 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.5543292	548	9.9701517	80	9.5841774	630	0.4158226	0	60
	30	9.5544937	548	9.9701275	81	9.5843562	629	0.4156338	30	
1	0	9.5546581	548	9.9701032	81	9.5845549	629	0.4154451	0	59
	30	9.5548225	548	9.9700789	80	9.5847435	627	0.4152565	30	
2	0	9.5549868	547	9.9700547	81	9.5849321	629	0.4150679	0	58
	30	9.5551510	548	9.9700304	81	9.5851207	628	0.4148793	30	
3	0	9.5553152	547	9.9700061	81	9.5853091	628	0.4146909	0	57
	30	9.5554793	547	9.9699818	82	9.5854975	628	0.4145025	30	
4	0	9.5556435	546	9.9699574	81	9.5856859	627	0.4143141	0	56
	30	9.5558072	547	9.9699331	81	9.5858742	627	0.4141258	30	
5	0	9.5559711	546	9.9699087	81	9.5860624	627	0.4139376	0	55
	30	9.5561349	546	9.9698844	81	9.5862505	627	0.4137495	30	
6	0	9.5562987	545	9.9698600	81	9.5864386	627	0.4135614	0	54
	30	9.5564623	545	9.9698356	81	9.5866267	626	0.4133733	30	
7	0	9.5566259	545	9.9698112	81	9.5868147	626	0.4131853	0	53
	30	9.5567894	545	9.9697868	81	9.5870026	626	0.4129974	30	
8	0	9.5569529	544	9.9697624	81	9.5871904	626	0.4128096	0	52
	30	9.5571163	544	9.9697380	81	9.5873782	626	0.4126218	30	
9	0	9.5572796	544	9.9697136	82	9.5875660	625	0.4124340	0	51
	30	9.5574428	544	9.9696891	81	9.5877537	625	0.4122463	30	
10	0	9.5576060	543	9.9696647	82	9.5879413	625	0.4120587	0	50
	30	9.5577691	543	9.9696402	81	9.5881288	625	0.4118712	30	
11	0	9.5579321	543	9.9696158	82	9.5883163	625	0.4116837	0	49
	30	9.5580950	543	9.9695913	82	9.5885038	624	0.4114962	30	
12	0	9.5582579	543	9.9695668	82	9.5886912	624	0.4113088	0	48
	30	9.5584207	543	9.9695423	82	9.5888785	624	0.4111215	30	
13	0	9.5585835	542	9.9695177	81	9.5890657	624	0.4109343	0	47
	30	9.5587462	542	9.9694932	82	9.5892529	624	0.4107471	30	
14	0	9.5589088	542	9.9694687	82	9.5894401	624	0.4105599	0	46
	30	9.5590713	542	9.9694441	81	9.5896272	623	0.4103723	30	
15	0	9.5592338	541	9.9694196	82	9.5898142	623	0.4101853	0	45
	30	9.5593962	541	9.9693950	82	9.5900012	623	0.4099978	30	
16	0	9.5595585	541	9.9693704	82	9.5901881	622	0.4098119	0	44
	30	9.5597207	541	9.9693458	82	9.5903749	623	0.4096251	30	
17	0	9.5598829	541	9.9693212	82	9.5905617	622	0.4094383	0	43
	30	9.5600450	541	9.9692966	82	9.5907484	622	0.4092516	30	
18	0	9.5602071	540	9.9692720	82	9.5909351	622	0.4090649	0	42
	30	9.5603691	539	9.9692474	82	9.5911217	622	0.4088783	30	
19	0	9.5605310	539	9.9692227	82	9.5913082	622	0.4086918	0	41
	30	9.5606928	539	9.9691981	82	9.5914947	622	0.4085053	30	
20	0	9.5608546	539	9.9691734	82	9.5916812	621	0.4083188	0	40
	30	9.5610163	539	9.9691487	82	9.5918675	622	0.4081325	30	
21	0	9.5611779	539	9.9691241	83	9.5920539	620	0.4079461	0	39
	30	9.5613395	538	9.9690994	83	9.5922401	621	0.4077599	30	
22	0	9.5615010	538	9.9690746	82	9.5924263	621	0.4075737	0	38
	30	9.5616624	538	9.9690499	82	9.5926124	621	0.4073876	30	
23	0	9.5618237	538	9.9690252	82	9.5927985	620	0.4072015	0	37
	30	9.5619852	538	9.9690005	83	9.5929846	619	0.4070154	30	
24	0	9.5621462	538	9.9689757	82	9.5931705	620	0.4068295	0	36
	30	9.5623074	537	9.9689510	83	9.5933564	620	0.4066436	30	
25	0	9.5624685	536	9.9689262	83	9.5935423	619	0.4064577	0	35
	30	9.5626295	536	9.9689014	83	9.5937281	619	0.4062719	30	
26	0	9.5627904	536	9.9688765	83	9.5939138	619	0.4060862	0	34
	30	9.5629513	536	9.9688518	83	9.5940995	618	0.4059005	30	
27	0	9.5631121	536	9.9688270	83	9.5942851	618	0.4057149	0	33
	30	9.5632728	536	9.9688022	83	9.5944706	619	0.4055294	30	
28	0	9.5634335	535	9.9687773	82	9.5946561	618	0.4053439	0	32
	30	9.5635941	535	9.9687525	83	9.5948416	618	0.4051584	30	
29	0	9.5637546	535	9.9687276	82	9.5950269	618	0.4049731	0	31
	30	9.5639150	535	9.9687028	83	9.5952123	617	0.4047877	30	
30	0	9.5640754		9.9686779		9.5953975		0.4046025	0	30
			10"		10"		10"			
'	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

63 deg.

21 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.5640754	535	9.9686779	83	9.5953975	618	0.4046025	0	30
	30	9.5642358	534	9.9686530	83	9.5955827	618	0.4044173	30	
31	0	9.5643960	534	9.9686281	83	9.5957679	617	0.4042321	0	29
	30	9.5645562	534	9.9686032	83	9.5959530	617	0.4040470	30	
32	0	9.5647163	534	9.9685783	83	9.5961380	617	0.4038620	0	28
	30	9.5648764	533	9.9685534	84	9.5963230	616	0.4036770	30	
33	0	9.5650363	533	9.9685284	83	9.5965079	616	0.4034921	0	27
	30	9.5651962	533	9.9685035	83	9.5966928	616	0.4033072	30	
34	0	9.5653561	533	9.9684785	83	9.5968776	616	0.4031224	0	26
	30	9.5655159	532	9.9684535	83	9.5970623	616	0.4029377	30	
35	0	9.5656756	532	9.9684286	84	9.5972470	616	0.4027530	0	25
	30	9.5658352	532	9.9684036	84	9.5974317	615	0.4025683	30	
36	0	9.5659948	532	9.9683786	84	9.5976162	615	0.4023838	0	24
	30	9.5661543	531	9.9683536	83	9.5978007	615	0.4021993	30	
37	0	9.5663137	532	9.9683285	83	9.5979852	615	0.4020148	0	23
	30	9.5664731	531	9.9683035	84	9.5981696	615	0.4018304	30	
38	0	9.5666324	531	9.9682784	83	9.5983540	614	0.4016460	0	22
	30	9.5667916	531	9.9682534	84	9.5985382	615	0.4014618	30	
39	0	9.5669508	530	9.9682283	83	9.5987225	614	0.4012775	0	21
	30	9.5671099	530	9.9682032	83	9.5989067	613	0.4010933	30	
40	0	9.5672689	530	9.9681781	83	9.5990908	613	0.4009092	0	20
	30	9.5674279	530	9.9681530	83	9.5992748	614	0.4007252	30	
41	0	9.5675868	529	9.9681279	83	9.5994588	614	0.4005412	0	19
	30	9.5677455	529	9.9681028	84	9.5996428	613	0.4003572	30	
42	0	9.5679044	529	9.9680777	84	9.5998267	613	0.4001733	0	18
	30	9.5680631	529	9.9680525	83	9.6000105	613	0.3999893	30	
43	0	9.5682217	529	9.9680274	84	9.6001943	613	0.3998057	0	17
	30	9.5683803	528	9.9680022	84	9.6003780	613	0.3996220	30	
44	0	9.5685387	529	9.9679771	84	9.6005617	612	0.3994383	0	16
	30	9.5686972	528	9.9679519	84	9.6007453	612	0.3992547	30	
45	0	9.5688555	528	9.9679267	84	9.6009289	611	0.3990711	0	15
	30	9.5690138	528	9.9679015	84	9.6011124	611	0.3988876	30	
46	0	9.5691721	527	9.9678763	85	9.6012958	611	0.3987042	0	14
	30	9.5693302	527	9.9678510	84	9.6014792	611	0.3985208	30	
47	0	9.5694883	527	9.9678258	84	9.6016625	611	0.3983375	0	13
	30	9.5696463	527	9.9678005	84	9.6018458	611	0.3981542	30	
48	0	9.5698043	526	9.9677753	84	9.6020290	611	0.3979710	0	12
	30	9.5699622	526	9.9677500	84	9.6022122	610	0.3977878	30	
49	0	9.5701200	526	9.9677247	84	9.6023953	610	0.3976047	0	11
	30	9.5702778	525	9.9676994	84	9.6025783	610	0.3974217	30	
50	0	9.5704355	525	9.9676741	84	9.6027613	610	0.3972387	0	10
	30	9.5705931	525	9.9676488	84	9.6029443	609	0.3970557	30	
51	0	9.5707506	525	9.9676235	84	9.6031271	610	0.3968729	0	9
	30	9.5709081	525	9.9675982	85	9.6033100	609	0.3966900	30	
52	0	9.5710656	524	9.9675728	84	9.6034927	609	0.3965073	0	8
	30	9.5712229	525	9.9675475	85	9.6036755	608	0.3963245	30	
53	0	9.5713802	524	9.9675221	85	9.6038581	609	0.3961419	0	7
	30	9.5715374	524	9.9674967	84	9.6040407	609	0.3959593	30	
54	0	9.5716946	524	9.9674713	84	9.6042233	608	0.3957767	0	6
	30	9.5718517	524	9.9674459	84	9.6044058	608	0.3955942	30	
55	0	9.5720087	524	9.9674205	84	9.6045882	608	0.3954118	0	5
	30	9.5721657	523	9.9673951	85	9.6047706	608	0.3952294	30	
56	0	9.5723226	523	9.9673697	85	9.6049529	608	0.3950471	0	4
	30	9.5724794	523	9.9673442	84	9.6051352	607	0.3948648	30	
57	0	9.5726362	522	9.9673188	85	9.6053174	607	0.3946826	0	3
	30	9.5727929	522	9.9672933	85	9.6054996	607	0.3945003	30	
58	0	9.5729495	522	9.9672679	85	9.6056817	607	0.3943183	0	2
	30	9.5731061	522	9.9672424	85	9.6058637	607	0.3941363	30	
59	0	9.5732625	522	9.9672169	85	9.6060457	607	0.3939543	0	1
	30	9.5734190	522	9.9671914	85	9.6062277	606	0.3937723	30	
60	0	9.5735754		9.9671659		9.6064096		0.3935904	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

68 deg.

22 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.5735754	521	9.9671659	85	9.6064096	606	0.3935904	0	60
	30	9.5737317	521	9.9671403	85	9.6065914	606	0.3934036	30	
1	0	9.5738880	520	9.9671148	85	9.6067732	605	0.3932258	0	59
	30	9.5740441	521	9.9670893	86	9.6069549	606	0.3930451	30	
2	0	9.5742003	520	9.9670637	85	9.6071365	605	0.3928634	0	58
	30	9.5743563	520	9.9670381	85	9.6073182	605	0.3926818	30	
3	0	9.5745123	520	9.9670125	85	0.6074997	605	0.3925003	0	57
	30	9.5746682	520	9.9669870	86	9.6076812	605	0.3923188	30	
4	0	9.5748240	520	9.9669614	86	9.6078627	605	0.3921373	0	56
	30	9.5749798	519	9.9669357	85	9.6080441	604	0.3919559	30	
5	0	9.5751356	518	9.9669101	85	9.6082254	605	0.3917746	0	55
	30	9.5752912	519	9.9668845	86	9.6084067	604	0.3915933	30	
6	0	9.5754468	518	9.9668588	85	9.6085880	604	0.3914120	0	54
	30	9.5756023	519	9.9668332	86	9.6087691	604	0.3912309	30	
7	0	9.5757578	518	9.9668075	85	9.6089503	603	0.3910497	0	53
	30	9.5759132	518	9.9667818	85	9.6091313	604	0.3908687	30	
8	0	9.5760685	518	9.9667562	86	9.6093124	603	0.3906876	0	52
	30	9.5762238	517	9.9667305	86	9.6094933	603	0.3905067	30	
9	0	9.5763790	517	9.9667048	86	9.6096742	603	0.3903258	0	51
	30	9.5765341	517	9.9666790	85	9.6098551	603	0.3901449	30	
10	0	9.5766892	517	9.9666533	86	9.6100359	602	0.3899641	0	50
	30	9.5768442	517	9.9666276	86	9.6102166	603	0.3897834	30	
11	0	9.5769991	517	9.9666018	86	9.6103973	602	0.3896027	0	49
	30	9.5771540	516	9.9665761	86	9.6105780	602	0.3894220	30	
12	0	9.5773088	516	9.9665503	86	9.6107586	601	0.3892414	0	48
	30	9.5774636	516	9.9665245	86	9.6109391	601	0.3890609	30	
13	0	9.5776183	515	9.9664987	86	9.6111196	601	0.3888804	0	47
	30	9.5777729	515	9.9664729	86	9.6113000	601	0.3887000	30	
14	0	9.5779275	515	9.9664471	86	9.6114804	601	0.3885196	0	46
	30	9.5780819	515	9.9664213	86	9.6116607	601	0.3883393	30	
15	0	9.5782364	514	9.9663954	86	9.6118409	601	0.3881591	0	45
	30	9.5783907	515	9.9663696	86	9.6120212	600	0.3879783	30	
16	0	9.5785450	515	9.9663437	86	9.6122013	601	0.3877987	0	44
	30	9.5786993	514	9.9663179	87	9.6123814	600	0.3876186	30	
17	0	9.5788535	513	9.9662920	87	9.6125615	600	0.3874385	0	43
	30	9.5790076	513	9.9662661	86	9.6127415	600	0.3872585	30	
18	0	9.5791616	513	9.9662402	87	9.6129214	600	0.3870786	0	42
	30	9.5793156	513	9.9662143	87	9.6131013	600	0.3868987	30	
19	0	9.5794695	513	9.9661884	87	9.6132812	599	0.3867183	0	41
	30	9.5796234	512	9.9661624	86	9.6134609	600	0.3865391	30	
20	0	9.5797772	512	9.9661365	87	9.6136407	599	0.3863593	0	40
	30	9.5799309	512	9.9661105	86	9.6138204	598	0.3861796	30	
21	0	9.5800845	512	9.9660846	87	9.6140000	598	0.3860000	0	39
	30	9.5802381	512	9.9660585	87	9.6141796	598	0.3858204	30	
22	0	9.5803917	511	9.9660326	87	9.6143591	598	0.3856409	0	38
	30	9.5805452	511	9.9660065	87	9.6145386	598	0.3854614	30	
23	0	9.5806986	511	9.9659806	87	9.6147180	598	0.3852820	0	37
	30	9.5808519	511	9.9659546	87	9.6148973	598	0.3851027	30	
24	0	9.5810052	511	9.9659285	86	9.6150766	598	0.3849234	0	36
	30	9.5811584	511	9.9659025	87	9.6152559	598	0.3847441	30	
25	0	9.5813116	510	9.9658764	86	9.6154351	597	0.3845649	0	35
	30	9.5814647	510	9.9658504	87	9.6156143	597	0.3843857	30	
26	0	9.5816177	510	9.9658243	87	9.6157934	597	0.3842066	0	34
	30	9.5817707	509	9.9657982	87	9.6159724	597	0.3840276	30	
27	0	9.5819236	509	9.9657721	87	9.6161514	597	0.3838486	0	33
	30	9.5820764	509	9.9657460	87	9.6163304	596	0.3836696	30	
28	0	9.5822292	509	9.9657199	87	9.6165093	596	0.3834907	0	32
	30	9.5823819	509	9.9656938	87	9.6166881	596	0.3833119	30	
29	0	9.5825345	509	9.9656677	88	9.6168669	596	0.3831331	0	31
	30	9.5826871	509	9.9656415	87	9.6170456	596	0.3829544	30	
30	0	9.5828397		9.9656153		9.6172243		0.3827757	0	30
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

67 deg.

20\*

22 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.5828397	508	9.9656153	87	9.6172243	596	0.3827757	0	30
	30	9.5829921	508	9.9655892	87	9.6174029	596	0.3825971	30	
31	0	9.5831445	508	9.9655630	87	9.6175815	595	0.3824185	0	29
	30	9.5832969	507	9.9655368	87	9.6177601	595	0.3822399	30	
32	0	9.5834491	508	9.9655106	87	9.6179385	595	0.3820615	0	28
	30	9.5836014	507	9.9654844	87	9.6181170	594	0.3818830	30	
33	0	9.5837535	507	9.9654582	88	9.6182953	595	0.3817047	0	27
	30	9.5839056	507	9.9654319	87	9.6184737	594	0.3815263	30	
34	0	9.5840576	507	9.9654057	88	9.6186519	594	0.3813481	0	26
	30	9.5842096	506	9.9653794	87	9.6188301	594	0.3811699	30	
35	0	9.5843615	506	9.9653532	88	9.6190083	594	0.3809917	0	25
	30	9.5845133	506	9.9653269	88	9.6191864	594	0.3808136	30	
36	0	9.5846651	506	9.9653006	88	9.6193645	593	0.3806355	0	24
	30	9.5848168	506	9.9652743	88	9.6195425	593	0.3804575	30	
37	0	9.5849685	505	9.9652480	88	9.6197205	593	0.3802795	0	23
	30	9.5851201	505	9.9652217	88	9.6198984	593	0.3801016	30	
38	0	9.5852716	505	9.9651953	87	9.6200762	593	0.3799238	0	22
	30	9.5854230	505	9.9651690	88	9.6202540	593	0.3797460	30	
39	0	9.5855745	504	9.9651426	87	9.6204318	592	0.3795682	0	21
	30	9.5857258	504	9.9651163	88	9.6206095	592	0.3793905	30	
40	0	9.5858771	504	9.9650899	88	9.6207872	592	0.3792128	0	20
	30	9.5860283	504	9.9650635	88	9.6209648	592	0.3790352	30	
41	0	9.5861795	503	9.9650371	88	9.6211423	592	0.3788577	0	19
	30	9.5863305	504	9.9650107	88	9.6213198	592	0.3786802	30	
42	0	9.5864816	503	9.9649843	88	9.6214973	591	0.3785027	0	18
	30	9.5866325	504	9.9649579	88	9.6216747	591	0.3783253	30	
43	0	9.5867835	502	9.9649314	88	9.6218520	591	0.3781480	0	17
	30	9.5869343	503	9.9649050	88	9.6220293	591	0.3779707	30	
44	0	9.5870851	502	9.9648785	88	9.6222066	590	0.3777934	0	16
	30	9.5872358	502	9.9648521	89	9.6223838	590	0.3776162	30	
45	0	9.5873865	502	9.9648256	89	9.6225609	590	0.3774391	0	15
	30	9.5875371	502	9.9647991	89	9.6227380	590	0.3772620	30	
46	0	9.5876876	502	9.9647726	89	9.6229150	590	0.3770850	0	14
	30	9.5878381	502	9.9647461	89	9.6230920	590	0.3769080	30	
47	0	9.5879885	501	9.9647195	88	9.6232690	590	0.3767310	0	13
	30	9.5881389	501	9.9646930	88	9.6234459	589	0.3765541	30	
48	0	9.5882892	501	9.9646665	89	9.6236227	589	0.3763773	0	12
	30	9.5884394	501	9.9646399	89	9.6237995	589	0.3762005	30	
49	0	9.5885896	500	9.9646133	88	9.6239763	589	0.3760237	0	11
	30	9.5887397	500	9.9645868	89	9.6241529	589	0.3758471	30	
50	0	9.5888897	500	9.9645602	89	9.6243296	589	0.3756704	0	10
	30	9.5890397	500	9.9645336	89	9.6245062	588	0.3754938	30	
51	0	9.5891897	499	9.9645069	88	9.6246827	588	0.3753173	0	9
	30	9.5893395	500	9.9644803	89	9.6248592	588	0.3751408	30	
52	0	9.5894893	500	9.9644537	89	9.6250356	589	0.3749644	0	8
	30	9.5896391	499	9.9644270	88	9.6252120	588	0.3747880	30	
53	0	9.5897888	499	9.9644004	89	9.6253884	588	0.3746116	0	7
	30	9.5899384	499	9.9643737	89	9.6255647	587	0.3744353	30	
54	0	9.5900880	498	9.9643470	88	9.6257409	587	0.3742591	0	6
	30	9.5902375	498	9.9643204	89	9.6259171	587	0.3740829	30	
55	0	9.5903869	498	9.9642937	89	9.6260932	587	0.3739068	0	5
	30	9.5905363	498	9.9642670	90	9.6262693	587	0.3737307	30	
56	0	9.5906856	498	9.9642402	89	9.6264454	586	0.3735546	0	4
	30	9.5908349	497	9.9642135	89	9.6266214	586	0.3733786	30	
57	0	9.5909841	497	9.9641868	90	9.6267973	587	0.3732027	0	3
	30	9.5911332	497	9.9641600	89	9.6269732	586	0.3730268	30	
58	0	9.5912823	497	9.9641332	89	9.6271491	586	0.3728509	0	2
	30	9.5914313	497	9.9641065	90	9.6273248	586	0.3726752	30	
59	0	9.5915803	496	9.9640797	89	9.6275006	586	0.3724994	0	1
	30	9.5917292	496	9.9640529	89	9.6276763	585	0.3723237	30	
60	0	9.5918780		9.9640261		9.6278519		0.3721481	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

67 deg.



23 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
0	o	9.5918780	496	9.9640261	90	9.6278519	586	0.3721481	o	60
	30	9.5920268	496	9.9639973	90	9.6280275	585	0.3719725	30	
1	o	9.5921755	496	9.9639724	89	9.6282031	585	0.3717969	o	59
	30	9.5923242	495	9.9639466	90	9.6283786	585	0.3716214	30	
2	o	9.5924728	495	9.9639187	89	9.6285540	585	0.3714460	o	58
	30	9.5926213	495	9.9638919	90	9.6287294	585	0.3712706	30	
3	o	9.5927698	495	9.9638650	89	9.6289048	584	0.3710952	o	57
	30	9.5929182	495	9.9638381	89	9.6290801	584	0.3709199	30	
4	o	9.5930666	494	9.9638112	89	9.6292553	584	0.3707447	o	56
	30	9.5932149	494	9.9637843	89	9.6294305	584	0.3705695	30	
5	o	9.5933631	494	9.9637574	90	9.6296057	584	0.3703943	o	55
	30	9.5935113	494	9.9637305	90	9.6297808	583	0.3702192	30	
6	o	9.5936594	494	9.9637036	90	9.6299558	584	0.3700442	o	54
	30	9.5938075	493	9.9636766	90	9.6301303	584	0.3698692	30	
7	o	9.5939555	493	9.9636496	89	9.6303058	583	0.3696942	o	53
	30	9.5941034	493	9.9636227	90	9.6304807	583	0.3695193	30	
8	o	9.5942513	493	9.9635957	90	9.6306556	583	0.3693444	o	52
	30	9.5943991	493	9.9635687	90	9.6308304	583	0.3691696	30	
9	o	9.5945469	492	9.9635417	90	9.6310052	582	0.3689948	o	51
	30	9.5946946	492	9.9635147	90	9.6311799	582	0.3688201	30	
10	o	9.5948422	492	9.9634877	90	9.6313545	582	0.3686455	o	50
	30	9.5949898	492	9.9634606	90	9.6315292	582	0.3684708	30	
11	o	9.5951373	492	9.9634336	90	9.6317037	582	0.3682963	o	49
	30	9.5952848	491	9.9634065	90	9.6318782	582	0.3681218	30	
12	o	9.5954322	491	9.9633795	91	9.6320527	582	0.3679473	o	48
	30	9.5955795	491	9.9633524	90	9.6322271	582	0.3677729	30	
13	o	9.5957268	491	9.9633253	90	9.6324015	581	0.3675985	o	47
	30	9.5958740	491	9.9632982	90	9.6325759	581	0.3674241	30	
14	o	9.5960212	491	9.9632711	91	9.6327501	581	0.3672497	o	46
	30	9.5961683	491	9.9632440	91	9.6329244	580	0.3670756	30	
15	o	9.5963154	490	9.9632168	90	9.6330985	581	0.3669015	o	45
	30	9.5964624	490	9.9631897	91	9.6332727	580	0.3667273	30	
16	o	9.5966093	490	9.9631625	90	9.6334468	580	0.3665532	o	44
	30	9.5967562	489	9.9631354	91	9.6336208	580	0.3663792	30	
17	o	9.5969030	489	9.9631082	91	9.6337948	580	0.3662052	o	43
	30	9.5970498	489	9.9630810	91	9.6339687	580	0.3660313	30	
18	o	9.5971965	488	9.9630538	91	9.6341425	580	0.3658575	o	42
	30	9.5973431	489	9.9630266	91	9.6343165	579	0.3656835	30	
19	o	9.5974897	488	9.9629994	91	9.6344903	579	0.3655097	o	41
	30	9.5976362	488	9.9629721	90	9.6346640	580	0.3653360	30	
20	o	9.5977827	488	9.9629449	91	9.6348378	578	0.3651622	o	40
	30	9.5979291	488	9.9629177	91	9.6350114	579	0.3649886	30	
21	o	9.5980754	488	9.9628904	91	9.6351850	579	0.3648150	o	39
	30	9.5982217	487	9.9628631	91	9.6353586	578	0.3646414	30	
22	o	9.5983679	488	9.9628358	91	9.6355321	578	0.3644679	o	38
	30	9.5985141	487	9.9628085	91	9.6357056	578	0.3642944	30	
23	o	9.5986602	487	9.9627812	91	9.6358790	578	0.3641210	o	37
	30	9.5988063	486	9.9627539	91	9.6360524	577	0.3639476	30	
24	o	9.5989523	486	9.9627266	91	9.6362257	577	0.3637743	o	36
	30	9.5990983	486	9.9626992	91	9.6363990	577	0.3636010	30	
25	o	9.5992441	485	9.9626719	91	9.6365722	577	0.3634278	o	35
	30	9.5993899	485	9.9626445	91	9.6367454	577	0.3632546	30	
26	o	9.5995357	485	9.9626172	92	9.6369185	577	0.3630815	o	34
	30	9.5996814	485	9.9625898	92	9.6370916	577	0.3629084	30	
27	o	9.5998270	486	9.9625624	92	9.6372646	577	0.3627354	o	33
	30	9.5999726	485	9.9625350	92	9.6374376	577	0.3625624	30	
28	o	9.6001181	485	9.9625076	92	9.6376106	576	0.3623894	o	32
	30	9.6002636	485	9.9624801	91	9.6377835	576	0.3622165	30	
29	o	9.6004090	485	9.9624527	92	9.6379563	576	0.3620437	o	31
	30	9.6005544	484	9.9624252	91	9.6381291	576	0.3618709	30	
30	o	9.6006997		9.9623978		9.6383019		0.3616981	o	30
		10''		10''		10''				
/	//	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	//	/

66 deg.

23 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
30	o	9.6006997	484	9.9623978	92	9.6383019	576	0.3616981	o	30
	30	9.6008449	484	9.9623703	91	9.6384746	576	0.3615254	o	30
31	o	9.6009901	484	9.9623428	91	9.6386473	575	0.3613527	o	29
	30	9.6011352	484	9.9623153	91	9.6388199	575	0.3611801	o	30
32	o	9.6012803	483	9.9622878	91	9.6389925	575	0.3610075	o	28
	30	9.6014253	483	9.9622603	92	9.6391650	575	0.3608350	o	30
33	o	9.6015703	483	9.9622328	92	9.6393375	575	0.3606625	o	27
	30	9.6017152	483	9.9622053	92	9.6395099	575	0.3604901	o	30
34	o	9.6018600	483	9.9621777	92	9.6396823	574	0.3603177	o	26
	30	9.6020048	482	9.9621502	92	9.6398546	575	0.3601454	o	30
35	o	9.6021495	482	9.9621226	92	9.6400269	574	0.3599731	o	25
	30	9.6022942	482	9.9620950	92	9.6401992	574	0.3598008	o	30
36	o	9.6024388	482	9.9620674	92	9.6403714	574	0.3596286	o	24
	30	9.6025833	482	9.9620398	92	9.6405435	574	0.3594565	o	30
37	o	9.6027278	482	9.9620122	92	9.6407156	574	0.3592844	o	23
	30	9.6028723	481	9.9619846	92	9.6408877	573	0.3591123	o	30
38	o	9.6030166	482	9.9619569	92	9.6410597	573	0.3589403	o	22
	30	9.6031610	481	9.9619293	92	9.6412317	573	0.3587683	o	30
39	o	9.6033052	481	9.9619016	92	9.6414036	573	0.3585964	o	21
	30	9.6034494	481	9.9618740	93	9.6415755	573	0.3584245	o	30
40	o	9.6035936	480	9.9618463	92	9.6417473	573	0.3582527	o	20
	30	9.6037377	480	9.9618186	92	9.6419191	572	0.3580809	o	30
41	o	9.6038817	480	9.9617909	92	9.6420908	573	0.3579092	o	19
	30	9.6040257	480	9.9617632	92	9.6422625	572	0.3577375	o	30
42	o	9.6041696	480	9.9617355	93	9.6424342	572	0.3575658	o	18
	30	9.6043135	479	9.9617077	92	9.6426058	571	0.3573942	o	30
43	o	9.6044573	479	9.9616800	92	9.6427775	572	0.3572227	o	17
	30	9.6046011	479	9.9616522	92	9.6429488	572	0.3570512	o	30
44	o	9.6047448	478	9.9616245	93	9.6431203	571	0.3568797	o	16
	30	9.6048884	479	9.9615967	93	9.6432917	571	0.3567083	o	30
45	o	9.6050320	478	9.9615689	93	9.6434631	571	0.3565369	o	15
	30	9.6051755	478	9.9615411	93	9.6436344	571	0.3563656	o	30
46	o	9.6053190	478	9.9615133	93	9.6438057	571	0.3561943	o	14
	30	9.6054624	478	9.9614855	93	9.6439769	571	0.3560231	o	30
47	o	9.6056067	478	9.9614576	92	9.6441481	571	0.3558519	o	13
	30	9.6057490	478	9.9614298	93	9.6443192	571	0.3556808	o	30
48	o	9.6058923	477	9.9614020	93	9.6444903	571	0.3555097	o	12
	30	9.6060355	477	9.9613741	93	9.6446614	570	0.3553386	o	30
49	o	9.6061786	477	9.9613462	93	9.6448324	570	0.3551676	o	11
	30	9.6063217	477	9.9613183	93	9.6450034	569	0.3549966	o	30
50	o	9.6064647	477	9.9612904	93	9.6451743	569	0.3548257	o	10
	30	9.6066077	476	9.9612625	93	9.6453451	570	0.3546549	o	30
51	o	9.6067506	476	9.9612346	93	9.6455160	569	0.3544840	o	9
	30	9.6068934	476	9.9612067	93	9.6456868	569	0.3543132	o	30
52	o	9.6070362	476	9.9611787	93	9.6458575	569	0.3541425	o	8
	30	9.6071789	476	9.9611508	93	9.6460282	569	0.3539718	o	30
53	o	9.6073216	476	9.9611228	93	9.6461988	569	0.3538012	o	7
	30	9.6074643	475	9.9610948	93	9.6463694	569	0.3536306	o	30
54	o	9.6076068	475	9.9610668	93	9.6465400	568	0.3534600	o	6
	30	9.6077493	475	9.9610389	94	9.6467105	568	0.3532895	o	30
55	o	9.6078918	475	9.9610108	93	9.6468810	568	0.3531190	o	5
	30	9.6080342	475	9.9609828	93	9.6470514	568	0.3529485	o	30
56	o	9.6081765	475	9.9609548	94	9.6472217	568	0.3527783	o	4
	30	9.6083188	474	9.9609268	94	9.6473921	567	0.3526079	o	30
57	o	9.6084611	474	9.9608987	93	9.6475624	567	0.3524376	o	3
	30	9.6086032	474	9.9608706	93	9.6477326	567	0.3522674	o	30
58	o	9.6087454	473	9.9608426	94	9.6479028	567	0.3520972	o	2
	30	9.6088874	474	9.9608145	94	9.6480730	567	0.3519270	o	30
59	o	9.6090294	474	9.9607864	94	9.6482431	566	0.3517569	o	1
	30	9.6091714	473	9.9607583	94	9.6484131	567	0.3515869	o	30
60	o	9.6093133	10''	9.9607302	10''	9.6485831	10''	0.3514169	o	0
/	//	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	//	/

66 deg.

24 deg.

/	"	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	"	/
0	0	9.6093133	473	9.9607302	94	9.6485831	567	0.3514169	0	60
	30	9.6094551	473	9.9607020	93	9.6487531	567	0.3512469	30	
1	0	9.6095969	473	9.9606739	94	9.6489230	567	0.3510770	0	59
	30	9.6097387	472	9.9606457	93	9.6490929	566	0.3509071	30	
2	0	9.6098803	473	9.9606176	94	9.6492628	566	0.3507372	0	58
	30	9.6100220	472	9.9605894	94	9.6494326	565	0.3505674	30	
3	0	9.6101635	472	9.9605612	94	9.6496023	566	0.3503977	0	57
	30	9.6103050	472	9.9605330	94	9.6497720	566	0.3502280	30	
4	0	9.6104465	471	9.9605048	94	9.6499417	565	0.3500583	0	56
	30	9.6105879	471	9.9604766	94	9.6501113	565	0.3498887	30	
5	0	9.6107293	471	9.9604484	94	9.6502809	565	0.3497191	0	55
	30	9.6108705	471	9.9604201	94	9.6504504	565	0.3495496	30	
6	0	9.6110118	470	9.9603919	94	9.6506199	565	0.3493801	0	54
	30	9.6111530	470	9.9603636	95	9.6507893	565	0.3492107	30	
7	0	9.6112941	470	9.9603354	94	9.6509587	565	0.3490413	0	53
	30	9.6114352	470	9.9603071	95	9.6511281	564	0.3488719	30	
8	0	9.6115762	470	9.9602788	95	9.6512974	564	0.3487026	0	52
	30	9.6117171	470	9.9602505	95	9.6514667	564	0.3485333	30	
9	0	9.6118580	470	9.9602222	95	9.6516359	564	0.3483641	0	51
	30	9.6119989	469	9.9601938	94	9.6518051	563	0.3481949	30	
10	0	9.6121397	469	9.9601655	95	9.6519742	564	0.3480258	0	50
	30	9.6122804	469	9.9601371	94	9.6521433	563	0.3478567	30	
11	0	9.6124211	469	9.9601088	95	9.6523123	564	0.3476877	0	49
	30	9.6125617	469	9.9600804	94	9.6524813	564	0.3475187	30	
12	0	9.6127023	469	9.9600520	94	9.6526503	563	0.3473497	0	48
	30	9.6128428	469	9.9600236	94	9.6528192	563	0.3471808	30	
13	0	9.6129833	468	9.9599952	94	9.6529881	563	0.3470119	0	47
	30	9.6131237	468	9.9599668	95	9.6531569	563	0.3468431	30	
14	0	9.6132641	468	9.9599384	95	9.6533257	562	0.3466743	0	46
	30	9.6134044	467	9.9599100	95	9.6534944	563	0.3465056	30	
15	0	9.6135446	468	9.9598815	95	9.6536631	563	0.3463369	0	45
	30	9.6136848	468	9.9598530	94	9.6538318	562	0.3461682	30	
16	0	9.6138250	467	9.9598246	95	9.6540004	562	0.3459996	0	44
	30	9.6139651	466	9.9597961	95	9.6541690	561	0.3458310	30	
17	0	9.6141051	467	9.9597676	95	9.6543375	562	0.3456625	0	43
	30	9.6142451	466	9.9597391	95	9.6545060	561	0.3454940	30	
18	0	9.6143853	466	9.9597106	95	9.6546744	561	0.3453256	0	42
	30	9.6145249	466	9.9596821	96	9.6548428	561	0.3451572	30	
19	0	9.6146647	466	9.9596535	95	9.6550112	561	0.3449888	0	41
	30	9.6148044	466	9.9596250	95	9.6551795	561	0.3448205	30	
20	0	9.6149441	466	9.9595964	95	9.6553477	561	0.3446523	0	40
	30	9.6150838	465	9.9595678	95	9.6555160	560	0.3444840	30	
21	0	9.6152244	465	9.9595393	96	9.6556841	561	0.3443159	0	39
	30	9.6153629	465	9.9595107	96	9.6558523	560	0.3441477	30	
22	0	9.6155024	465	9.9594821	96	9.6560204	560	0.3439796	0	38
	30	9.6156419	464	9.9594535	96	9.6561884	560	0.3438116	30	
23	0	9.6157812	465	9.9594248	95	9.6563564	560	0.3436436	0	37
	30	9.6159206	464	9.9593962	96	9.6565244	560	0.3434756	30	
24	0	9.6160599	464	9.9593675	95	9.6566923	560	0.3433077	0	36
	30	9.6161991	464	9.9593389	96	9.6568602	559	0.3431398	30	
25	0	9.6163382	464	9.9593102	95	9.6570280	560	0.3429720	0	35
	30	9.6164774	463	9.9592815	95	9.6571958	559	0.3428042	30	
26	0	9.6166164	464	9.9592528	95	9.6573636	559	0.3426364	0	34
	30	9.6167554	463	9.9592241	95	9.6575313	559	0.3424687	30	
27	0	9.6168944	463	9.9591954	95	9.6576993	559	0.3423011	0	33
	30	9.6170333	463	9.9591667	96	9.6578666	558	0.3421334	30	
28	0	9.6171721	463	9.9591380	96	9.6580341	559	0.3419659	0	32
	30	9.6173109	463	9.9591092	96	9.6582017	558	0.3417983	30	
29	0	9.6174496	463	9.9590805	96	9.6583692	558	0.3416308	0	31
	30	9.6175883	462	9.9590517	96	9.6585366	558	0.3414634	30	
30	0	9.6177270	10''	9.9590229	10''	9.6587041	10''	0.3412959	0	30
/	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	/

65 deg.

24 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.6177270	462	9.9590229	96	9.6587041	557	0.3412959	0	30
	30	9.6178555	462	9.9589941	96	9.6583714	558	0.3411286	30	
31	0	9.6180041	461	9.9589653	96	9.6580387	558	0.3409613	0	29
	30	9.6181425	462	9.9589365	96	9.6577060	558	0.3407940	30	
32	0	9.6182809	462	9.9589077	96	9.6573733	557	0.3406267	0	28
	30	9.6184193	461	9.9588788	96	9.6570405	557	0.3404595	30	
33	0	9.6185576	461	9.9588500	96	9.6567076	557	0.3402924	0	27
	30	9.6186959	461	9.9588211	96	9.6563747	557	0.3401253	30	
34	0	9.6188341	460	9.9587923	97	9.6560418	557	0.3399582	0	26
	30	9.6189722	461	9.9587634	96	9.6557089	556	0.3397911	30	
35	0	9.6191103	461	9.9587345	96	9.6553758	557	0.3396242	0	25
	30	9.6192484	460	9.9587056	96	9.6550428	556	0.3394572	30	
36	0	9.6193864	460	9.9586767	97	9.6547097	556	0.3392903	0	24
	30	9.6195243	460	9.9586477	96	9.6543766	556	0.3391234	30	
37	0	9.6196622	459	9.9586188	96	9.6540434	556	0.3389566	0	23
	30	9.6198000	460	9.9585899	97	9.6537102	555	0.3387898	30	
38	0	9.6199379	459	9.9585609	96	9.6533769	556	0.3386231	0	22
	30	9.6200755	459	9.9585319	96	9.6530436	556	0.3384564	30	
39	0	9.6202132	459	9.9585030	97	9.6527103	555	0.3382897	0	21
	30	9.6203508	459	9.9584740	97	9.6523769	555	0.3381231	30	
40	0	9.6204884	458	9.9584450	97	9.6520434	556	0.3379566	0	20
	30	9.6206259	458	9.9584159	96	9.6517100	555	0.3377900	30	
41	0	9.6207634	458	9.9583869	97	9.6513765	554	0.3376235	0	19
	30	9.6209008	458	9.9583579	97	9.6510429	555	0.3374571	30	
42	0	9.6210382	457	9.9583288	96	9.6507093	555	0.3372907	0	18
	30	9.6211755	457	9.9582998	97	9.6503757	554	0.3371243	30	
43	0	9.6213127	457	9.9582707	97	9.6500420	554	0.3369580	0	17
	30	9.6214499	457	9.9582416	97	9.6497083	554	0.3367917	30	
44	0	9.6215871	457	9.9582125	97	9.6493745	554	0.3366255	0	16
	30	9.6217242	456	9.9581834	97	9.6490407	554	0.3364593	30	
45	0	9.6218612	457	9.9581543	97	9.6487069	554	0.3362931	0	15
	30	9.6219982	456	9.9581252	97	9.6483730	554	0.3361270	30	
46	0	9.6221351	457	9.9580961	98	9.6480391	553	0.3359609	0	14
	30	9.6222720	456	9.9580669	97	9.6477051	553	0.3357949	30	
47	0	9.6224088	456	9.9580378	98	9.6473711	553	0.3356289	0	13
	30	9.6225456	456	9.9580086	97	9.6470370	553	0.3354630	30	
48	0	9.6226824	455	9.9579794	97	9.6467030	552	0.3352970	0	12
	30	9.6228190	456	9.9579502	97	9.6463688	553	0.3351312	30	
49	0	9.6229557	455	9.9579210	97	9.6460346	553	0.3349654	0	11
	30	9.6230922	455	9.9578918	97	9.6457004	553	0.3347996	30	
50	0	9.6232287	455	9.9578626	98	9.6453662	552	0.3346338	0	10
	30	9.6233652	455	9.9578333	97	9.6450319	552	0.3344681	30	
51	0	9.6235016	455	9.9578041	98	9.6446975	553	0.3343025	0	9
	30	9.6236380	454	9.9577748	97	9.6443632	552	0.3341368	30	
52	0	9.6237743	454	9.9577456	98	9.6440288	551	0.3339712	0	8
	30	9.6239106	454	9.9577163	98	9.6436943	552	0.3338057	30	
53	0	9.6240468	454	9.9576870	98	9.6433598	552	0.3336402	0	7
	30	9.6241829	454	9.9576577	98	9.6430253	551	0.3334747	30	
54	0	9.6243190	454	9.9576284	98	9.6426907	551	0.3333093	0	6
	30	9.6244551	453	9.9575990	97	9.6423561	551	0.3331439	30	
55	0	9.6245911	453	9.9575697	98	9.6420214	551	0.3329786	0	5
	30	9.6247270	453	9.9575404	98	9.6416867	551	0.3328133	30	
56	0	9.6248629	453	9.9575110	98	9.6413519	551	0.3326481	0	4
	30	9.6249988	453	9.9574816	98	9.6410172	550	0.3324828	30	
57	0	9.6251346	452	9.9574522	98	9.6406823	551	0.3323177	0	3
	30	9.6252703	453	9.9574228	98	9.6403475	550	0.3321525	30	
58	0	9.6254060	452	9.9573934	98	9.6400126	550	0.3319874	0	2
	30	9.6255417	452	9.9573640	98	9.6396776	550	0.3318224	30	
59	0	9.6256772	452	9.9573346	98	9.6393426	550	0.3316574	0	1
	30	9.6258128	451	9.9573052	99	9.6390076	550	0.3314924	30	
60	0	9.6259483		9.9572757		9.6386725		0.3313275	0	0
'	''	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	''	'

65 deg.



25 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.6259483	451	9.9572757	98	9.6686725	550	0.3313275	0	60
	30	9.6260837	451	9.9572463	99	9.6688374	550	0.3311626	30	
1	0	9.6262191	451	9.9572168	98	9.6690023	549	0.3309377	0	59
	30	9.6263544	451	9.9571873	98	9.6691671	549	0.3308322	30	
2	0	9.6264897	451	9.9571578	98	9.6693319	549	0.3306681	0	58
	30	9.6266249	451	9.9571283	98	9.6694966	549	0.3305034	30	
3	0	9.6267601	450	9.9570988	99	9.6696613	549	0.3303387	0	57
	30	9.6268952	450	9.9570693	99	9.6698260	548	0.3301740	30	
4	0	9.6270303	450	9.9570397	98	9.6699906	548	0.3300094	0	56
	30	9.6271653	450	9.9570102	99	9.6701551	549	0.3298349	30	
5	0	9.6273003	450	9.9569806	99	9.6703197	548	0.3296803	0	55
	30	9.6274352	450	9.9569510	98	9.6704842	548	0.3295158	30	
6	0	9.6275701	449	9.9569215	99	9.6706486	548	0.3293514	0	54
	30	9.6277049	449	9.9568919	99	9.6708130	548	0.3291870	30	
7	0	9.6278397	449	9.9568623	99	9.6709774	548	0.3290226	0	53
	30	9.6279744	449	9.9568326	98	9.6711417	548	0.3288583	30	
8	0	9.6281090	449	9.9568030	99	9.6713060	548	0.3286940	0	52
	30	9.6282437	448	9.9567734	99	9.6714703	547	0.3285297	30	
9	0	9.6283782	449	9.9567437	99	9.6716345	547	0.3283655	0	51
	30	9.6285127	449	9.9567141	99	9.6717987	547	0.3282013	30	
10	0	9.6286472	448	9.9566844	99	9.6719628	547	0.3280372	0	50
	30	9.6287816	448	9.9566547	99	9.6721269	547	0.3278731	30	
11	0	9.6289160	447	9.9566250	99	9.6722910	546	0.3277090	0	49
	30	9.6290503	447	9.9565953	99	9.6724550	546	0.3275450	30	
12	0	9.6291845	448	9.9565656	99	9.6726190	546	0.3273810	0	48
	30	9.6293187	448	9.9565358	99	9.6727829	546	0.3272171	30	
13	0	9.6294529	447	9.9565061	99	9.6729468	546	0.3270532	0	47
	30	9.6295870	447	9.9564764	100	9.6731107	546	0.3268893	30	
14	0	9.6297211	446	9.9564466	99	9.6732745	546	0.3267255	0	46
	30	9.6298551	446	9.9564168	99	9.6734383	545	0.3265617	30	
15	0	9.6299890	447	9.9563870	99	9.6736020	546	0.3263980	0	45
	30	9.6301229	447	9.9563572	99	9.6737657	546	0.3262343	30	
16	0	9.6302568	446	9.9563274	99	9.6739294	545	0.3260706	0	44
	30	9.6303906	446	9.9562976	99	9.6740930	545	0.3259070	30	
17	0	9.6305243	446	9.9562678	100	9.6742566	545	0.3257434	0	43
	30	9.6306580	446	9.9562379	99	9.6744201	545	0.3255799	30	
18	0	9.6307917	445	9.9562081	99	9.6745836	545	0.3254164	0	42
	30	9.6309253	445	9.9561782	99	9.6747471	545	0.3252529	30	
19	0	9.6310589	445	9.9561483	99	9.6749105	545	0.3250895	0	41
	30	9.6311924	444	9.9561185	100	9.6750739	544	0.3249261	30	
20	0	9.6313258	445	9.9560886	100	9.6752372	545	0.3247628	0	40
	30	9.6314592	445	9.9560587	100	9.6754006	544	0.3245994	30	
21	0	9.6315926	444	9.9560287	100	9.6755638	544	0.3244362	0	39
	30	9.6317259	444	9.9559988	99	9.6757271	544	0.3242729	30	
22	0	9.6318593	444	9.9559689	100	9.6758903	543	0.3241097	0	38
	30	9.6319923	444	9.9559389	100	9.6760534	544	0.3239466	30	
23	0	9.6321255	443	9.9559089	99	9.6762165	544	0.3237835	0	37
	30	9.6322586	443	9.9558790	100	9.6763796	544	0.3236204	30	
24	0	9.6323916	444	9.9558490	100	9.6765426	544	0.3234574	0	36
	30	9.6325246	443	9.9558190	100	9.6767056	544	0.3232944	30	
25	0	9.6326576	443	9.9557890	100	9.6768686	543	0.3231314	0	35
	30	9.6327905	443	9.9557589	100	9.6770315	543	0.3229685	30	
26	0	9.6329233	443	9.9557289	100	9.6771944	543	0.3228056	0	34
	30	9.6330561	443	9.9556989	100	9.6773573	542	0.3226427	30	
27	0	9.6331889	442	9.9556688	100	9.6775201	542	0.3224799	0	33
	30	9.6333216	442	9.9556387	100	9.6776828	543	0.3223172	30	
28	0	9.6334542	442	9.9556087	101	9.6778456	542	0.3221544	0	32
	30	9.6335868	442	9.9555786	100	9.6780083	542	0.3219917	30	
29	0	9.6337194	442	9.9555485	101	9.6781709	542	0.3218291	0	31
	30	9.6338519	442	9.9555184	101	9.6783335	542	0.3216665	30	
30	0	9.6339844		9.9554882		9.6784961		0.3215039	0	30
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

64 deg.

25 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.6339844	441	9.9554882	100	9.6784961	542	0.3215039	0	30
	30	9.6341168	441	9.9554581	100	9.6786586	542	0.3213414	30	
31	0	9.6342491	441	9.9554280	101	9.6788211	542	0.3211789	0	29
	30	9.6343814	441	9.9553978	100	9.6789835	541	0.3210164	30	
32	0	9.6345137	440	9.9553676	100	9.6791460	542	0.3208540	0	28
	30	9.6346459	440	9.9553375	101	9.6793084	541	0.3206916	30	
33	0	9.6347780	441	9.9553073	101	9.6794708	541	0.3205292	0	27
	30	9.6349101	441	9.9552771	101	9.6796331	541	0.3203669	30	
34	0	9.6350422	440	9.9552469	101	9.6797953	541	0.3202047	0	26
	30	9.6351742	440	9.9552166	100	9.6799576	540	0.3200424	30	
35	0	9.6353062		9.9551864		9.6801198		0.3198802	0	25
	30	9.6354381	439	9.9551562	101	9.6802819	540	0.3197181	30	
36	0	9.6355699	439	9.9551259	101	9.6804440	541	0.3195560	0	24
	30	9.6357018	439	9.9550956	101	9.6806061	540	0.3193939	30	
37	0	9.6358335	439	9.9550653	101	9.6807682	540	0.3192318	0	23
	30	9.6359652	439	9.9550351	101	9.6809302	540	0.3190698	30	
38	0	9.6360969	439	9.9550047	101	9.6810921	540	0.3189079	0	22
	30	9.6362285	439	9.9549744	101	9.6812541	539	0.3187459	30	
39	0	9.6363601	438	9.9549441	101	9.6814160	539	0.3185840	0	21
	30	9.6364916	438	9.9549138	101	9.6815778	540	0.3184222	30	
40	0	9.6366231	438	9.9548834	101	9.6817396	540	0.3182604	0	20
	30	9.6367545	438	9.9548531	102	9.6819014	539	0.3180986	30	
41	0	9.6368859	437	9.9548227	101	9.6820632	539	0.3179368	0	19
	30	9.6370172	437	9.9547923	101	9.6822249	539	0.3177751	30	
42	0	9.6371484	438	9.9547619	101	9.6823865	539	0.3176135	0	18
	30	9.6372797	437	9.9547315	101	9.6825482	538	0.3174518	30	
43	0	9.6374108	433	9.9547011	101	9.6827098	538	0.3172902	0	17
	30	9.6375420	437	9.9546707	102	9.6828713	539	0.3171287	30	
44	0	9.6376731	436	9.9546402	101	9.6830328	539	0.3169672	0	16
	30	9.6378041	436	9.9546098	102	9.6831943	538	0.3168057	30	
45	0	9.6379351	436	9.9545793	101	9.6833557	539	0.3166443	0	15
	30	9.6380660	436	9.9545488	101	9.6835172	537	0.3164828	30	
46	0	9.6381965	436	9.9545184	102	9.6836785	538	0.3163215	0	14
	30	9.6383277	436	9.9544879	102	9.6838398	538	0.3161602	30	
47	0	9.6384585	436	9.9544574	102	9.6840011	538	0.3159989	0	13
	30	9.6385892	436	9.9544268	101	9.6841624	537	0.3158376	30	
48	0	9.6387199	436	9.9543963	102	9.6843236	537	0.3156764	0	12
	30	9.6388506	435	9.9543658	102	9.6844848	537	0.3155152	30	
49	0	9.6389812	435	9.9543352	102	9.6846459	537	0.3153541	0	11
	30	9.6391117	435	9.9543046	101	9.6848070	537	0.3151930	30	
50	0	9.6392422	435	9.9542741	102	9.6849681	537	0.3150319	0	10
	30	9.6393726	435	9.9542435	102	9.6851291	537	0.3148709	30	
51	0	9.6395030	435	9.9542129	102	9.6852901	537	0.3147099	0	9
	30	9.6396334	434	9.9541823	102	9.6854511	536	0.3145489	30	
52	0	9.6397637	434	9.9541517	103	9.6856120	537	0.3143880	0	8
	30	9.6398939	434	9.9541210	102	9.6857729	536	0.3142271	30	
53	0	9.6400241	434	9.9540904	102	9.6859338	536	0.3140662	0	7
	30	9.6401543	434	9.9540597	102	9.6860946	536	0.3139054	30	
54	0	9.6402844	434	9.9540291	103	9.6862553	536	0.3137447	0	6
	30	9.6404145	433	9.9539984	102	9.6864161	536	0.3135839	30	
55	0	9.6405445	433	9.9539677	102	9.6865768	535	0.3134232	0	5
	30	9.6406744	434	9.9539370	102	9.6867374	536	0.3132626	30	
56	0	9.6408044	433	9.9539063	103	9.6868981	535	0.3131019	0	4
	30	9.6409342	433	9.9538756	103	9.6870587	535	0.3129413	30	
57	0	9.6410640	433	9.9538448	102	9.6872192	535	0.3127808	0	3
	30	9.6411938	433	9.9538141	103	9.6873797	535	0.3126203	30	
58	0	9.6413235	433	9.9537833	102	9.6875402	535	0.3124598	0	2
	30	9.6414532	432	9.9537526	103	9.6877007	534	0.3122993	30	
59	0	9.6415828	432	9.9537218	103	9.6878611	534	0.3121389	0	1
	30	9.6417124	432	9.9536910	103	9.6880214	535	0.3119786	30	
60	0	9.6418420		9.9536602		9.6881818		0.3118182	0	0
'	''	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	''	'

64 deg.

26 deg.

"	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	"
0	0	9.6418420	431	9.9536602	103	9.6881818	534	0.3118182	0	69
	30	9.6419714	432	9.9536204	103	9.6883421	534	0.3116579	30	
1	0	9.6421009	431	9.9535985	102	9.6885023	534	0.3114977	0	59
	30	9.6422303	431	9.9535677	103	9.6886626	534	0.3113374	30	
2	0	9.6423596	431	9.9535369	103	9.6888227	534	0.3111773	0	58
	30	9.6424889	431	9.9535060	103	9.6889829	534	0.3110171	30	
3	0	9.6426182	430	9.9534751	103	9.6891430	534	0.3108570	0	57
	30	9.6427474	430	9.9534443	103	9.6893031	534	0.3106969	30	
4	0	9.6428765	430	9.9534134	103	9.6894631	534	0.3105369	0	56
	30	9.6430056	430	9.9533825	103	9.6896232	533	0.3103768	30	
5	0	9.6431347	430	9.9533515	103	9.6897831	533	0.3102169	0	55
	30	9.6432637	430	9.9533206	103	9.6899431	533	0.3100569	30	
6	0	9.6433926	430	9.9532897	103	9.6901030	533	0.3098970	0	54
	30	9.6435215	430	9.9532587	103	9.6902628	533	0.3097372	30	
7	0	9.6436504	430	9.9532278	103	9.6904226	533	0.3095774	0	53
	30	9.6437792	430	9.9531968	103	9.6905824	533	0.3094176	30	
8	0	9.6439080	429	9.9531658	103	9.6907422	532	0.3092578	0	52
	30	9.6440367	429	9.9531348	103	9.6909019	532	0.3090981	30	
9	0	9.6441654	429	9.9531038	103	9.6910616	532	0.3089384	0	51
	30	9.6442940	429	9.9530728	104	9.6912212	532	0.3087788	30	
10	0	9.6444226	429	9.9530418	104	9.6913809	532	0.3086191	0	50
	30	9.6445511	429	9.9530107	103	9.6915404	532	0.3084596	30	
11	0	9.6446796	429	9.9529797	104	9.6917000	531	0.3083000	0	49
	30	9.6448081	428	9.9529486	104	9.6918595	531	0.3081405	30	
12	0	9.6449365	428	9.9529175	103	9.6920189	532	0.3079811	0	48
	30	9.6450648	428	9.9528864	103	9.6921784	531	0.3078216	30	
13	0	9.6451931	428	9.9528553	103	9.6923378	531	0.3076622	0	47
	30	9.6453214	427	9.9528242	103	9.6924971	532	0.3075029	30	
14	0	9.6454496	427	9.9527931	104	9.6926565	531	0.3073435	0	46
	30	9.6455777	427	9.9527620	104	9.6928158	530	0.3071842	30	
15	0	9.6457058	427	9.9527308	104	9.6929750	531	0.3070250	0	45
	30	9.6458339	427	9.9526997	104	9.6931342	531	0.3068658	30	
16	0	9.6459619	427	9.9526685	104	9.6932934	531	0.3067066	0	44
	30	9.6460909	426	9.9526373	104	9.6934526	531	0.3065474	30	
17	0	9.6462178	426	9.9526061	104	9.6936117	530	0.3063883	0	43
	30	9.6463457	426	9.9525749	104	9.6937708	530	0.3062292	30	
18	0	9.6464735	426	9.9525437	104	9.6939298	530	0.3060702	0	42
	30	9.6466013	426	9.9525125	104	9.6940888	530	0.3059112	30	
19	0	9.6467290	426	9.9524813	105	9.6942478	530	0.3057522	0	41
	30	9.6468567	426	9.9524500	104	9.6944067	530	0.3055933	30	
20	0	9.6469844	425	9.9524188	105	9.6945656	530	0.3054344	0	40
	30	9.6471120	425	9.9523875	104	9.6947245	529	0.3052755	30	
21	0	9.6472395	425	9.9523562	104	9.6948833	529	0.3051167	0	39
	30	9.6473670	425	9.9523249	104	9.6950421	529	0.3049579	30	
22	0	9.6474945	424	9.9522936	104	9.6952009	529	0.3047991	0	38
	30	9.6476219	424	9.9522623	104	9.6953596	529	0.3046404	30	
23	0	9.6477492	424	9.9522310	105	9.6955183	529	0.3044817	0	37
	30	9.6478766	424	9.9521996	104	9.6956769	529	0.3043231	30	
24	0	9.6480038	424	9.9521683	105	9.6958355	529	0.3041645	0	36
	30	9.6481310	424	9.9521369	104	9.6959941	529	0.3040059	30	
25	0	9.6482582	424	9.9521055	104	9.6961527	528	0.3038473	0	35
	30	9.6483854	423	9.9520742	105	9.6963112	528	0.3036888	30	
26	0	9.6485124	424	9.9520428	105	9.6964697	528	0.3035303	0	34
	30	9.6486395	423	9.9520114	105	9.6966281	528	0.3033719	30	
27	0	9.6487665	423	9.9519799	104	9.6967865	528	0.3032135	0	33
	30	9.6488934	423	9.9519485	105	9.6969449	528	0.3030551	30	
28	0	9.6490203	423	9.9519171	105	9.6971032	528	0.3028968	0	32
	30	9.6491472	422	9.9518856	105	9.6972615	525	0.3027385	30	
29	0	9.6492740	422	9.9518541	104	9.6974198	528	0.3025802	0	31
	30	9.6494007	423	9.9518227	105	9.6975781	527	0.3024219	30	
30	0	9.6495274		9.9517912		9.6977363		0.3022637	0	30
"	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

63 deg.

26 deg.

'	"	l. sin.	dif. 10"	l. cosin.	dif. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.6495274	423	9.9517912	105	9.6977363	527	0.3022637	0	30
	30	9.6496541	422	9.9517597	105	9.6978944	527	0.3021056	30	
31	0	9.6497807	422	9.9517282	105	9.6980526	527	0.3019474	0	29
	30	9.6499073	422	9.9516967	106	9.6982106	527	0.3017894	30	
32	0	9.6500338	422	9.9516651	105	9.6983687	527	0.3016313	0	28
	30	9.6501603	422	9.9516336	105	9.6985267	527	0.3014733	30	
33	0	9.6502868	421	9.9516020	105	9.6986847	527	0.3013153	0	27
	30	9.6504131	422	9.9515704	105	9.6988427	526	0.3011573	30	
34	0	9.6505395	421	9.9515389	106	9.6990006	527	0.3009994	0	26
	30	9.6506658	421	9.9515073	106	9.6991585	526	0.3008415	30	
35	0	9.6507920	421	9.9514757	106	9.6993164	526	0.3006836	0	25
	30	9.6509182	421	9.9514441	106	9.6994742	526	0.3005258	30	
36	0	9.6510444	421	9.9514124	105	9.6996320	526	0.3003680	0	24
	30	9.6511705	421	9.9513808	105	9.6997897	526	0.3002103	30	
37	0	9.6512966	420	9.9513492	106	9.6999474	526	0.3000526	0	23
	30	9.6514226	420	9.9513175	106	9.7001051	526	0.2998949	30	
38	0	9.6515486	420	9.9512858	105	9.7002628	525	0.2997372	0	22
	30	9.6516745	420	9.9512541	105	9.7004204	525	0.2995796	30	
39	0	9.6518004	420	9.9512224	105	9.7005780	525	0.2994220	0	21
	30	9.6519263	419	9.9511907	105	9.7007355	525	0.2992645	30	
40	0	9.6520521	419	9.9511590	106	9.7008930	525	0.2991070	0	20
	30	9.6521778	419	9.9511273	106	9.7010505	525	0.2989495	30	
41	0	9.6523035	419	9.9510956	106	9.7012080	524	0.2987920	0	19
	30	9.6524292	418	9.9510638	106	9.7013654	524	0.2986346	30	
42	0	9.6525548	418	9.9510320	106	9.7015227	525	0.2984773	0	18
	30	9.6526804	418	9.9510003	106	9.7016801	524	0.2983199	30	
43	0	9.6528059	418	9.9509685	106	9.7018374	524	0.2981626	0	17
	30	9.6529313	419	9.9509367	106	9.7019947	524	0.2980053	30	
44	0	9.6530568	418	9.9509049	106	9.7021519	524	0.2978481	0	16
	30	9.6531822	418	9.9508731	107	9.7023091	524	0.2976909	30	
45	0	9.6533075	418	9.9508412	106	9.7024663	524	0.2975337	0	15
	30	9.6534328	418	9.9508094	106	9.7026234	524	0.2973766	30	
46	0	9.6535581	417	9.9507775	106	9.7027805	524	0.2972195	0	14
	30	9.6536833	417	9.9507457	107	9.7029376	524	0.2970624	30	
47	0	9.6538084	417	9.9507138	107	9.7030946	524	0.2969054	0	13
	30	9.6539335	417	9.9506819	106	9.7032516	524	0.2967484	30	
48	0	9.6540586	417	9.9506500	107	9.7034086	523	0.2965914	0	12
	30	9.6541836	417	9.9506181	107	9.7035656	523	0.2964344	30	
49	0	9.6543086	417	9.9505861	106	9.7037225	523	0.2962775	0	11
	30	9.6544335	417	9.9505542	106	9.7038793	523	0.2961207	30	
50	0	9.6545584	416	9.9505223	107	9.7040362	522	0.2959638	0	10
	30	9.6546833	416	9.9504903	107	9.7041930	522	0.2958070	30	
51	0	9.6548081	416	9.9504583	106	9.7043497	523	0.2956503	0	9
	30	9.6549328	416	9.9504263	106	9.7045065	522	0.2954935	30	
52	0	9.6550575	416	9.9503944	107	9.7046632	522	0.2953368	0	8
	30	9.6551822	415	9.9503624	107	9.7048198	523	0.2951802	30	
53	0	9.6553068	415	9.9503303	106	9.7049765	522	0.2950235	0	7
	30	9.6554314	415	9.9502983	107	9.7051331	522	0.2948666	30	
54	0	9.6555559	415	9.9502663	107	9.7052897	521	0.2947103	0	6
	30	9.6556804	415	9.9502342	107	9.7054462	522	0.2945538	30	
55	0	9.6558048	415	9.9502022	107	9.7056027	521	0.2943973	0	5
	30	9.6559292	415	9.9501701	107	9.7057592	521	0.2942408	30	
56	0	9.6560536	414	9.9501380	107	9.7059156	521	0.2940844	0	4
	30	9.6561779	414	9.9501059	107	9.7060720	521	0.2939280	30	
57	0	9.6563021	415	9.9500738	107	9.7062284	521	0.2937716	0	3
	30	9.6564264	414	9.9500417	107	9.7063847	521	0.2936153	30	
58	0	9.6565505	414	9.9500095	107	9.7065410	521	0.2934590	0	2
	30	9.6566747	413	9.9499774	107	9.7066973	521	0.2933027	30	
59	0	9.6567987	413	9.9499452	107	9.7068535	521	0.2931465	0	1
	30	9.6569228	413	9.9499131	108	9.7070097	521	0.2929903	30	
60	0	9.6570468		9.9498809		9.7071659		0.2928341	0	0
'	"	l. cosin.	dif. 10"	l. sin.	dif. 10"	l. cotan.	dif. 10"	l. tang.	"	'



27 deg.

/	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	/
0	0	9.6570468	413	9.9498803	107	9.7071653	520	0.2928341	0	60
	30	9.6571707	413	9.9498487	107	9.7073220	521	0.2926780	30	
1	0	9.6572946	413	9.9498165	107	9.7074781	521	0.2925219	0	59
	30	9.6574185	412	9.9497843	108	9.7076342	520	0.2923658	30	
2	0	9.6575423	412	9.9497521	108	9.7077902	520	0.2922098	0	58
	30	9.6576661	412	9.9497198	107	9.7079462	520	0.2920538	30	
3	0	9.6577898	412	9.9496876	108	9.7081022	520	0.2918978	0	57
	30	9.6579135	412	9.9496553	107	9.7082582	519	0.2917418	30	
4	0	9.6580371	412	9.9496230	107	9.7084141	519	0.2915859	0	56
	30	9.6581607	412	9.9495908	108	9.7085699	520	0.2914301	30	
5	0	9.6582842	412	9.9495585	108	9.7087258	519	0.2912742	0	55
	30	9.6584077	412	9.9495262	108	9.7088816	519	0.2911184	30	
6	0	9.6585312	411	9.9494938	107	9.7090374	519	0.2909626	0	54
	30	9.6586546	411	9.9494615	108	9.7091931	519	0.2908069	30	
7	0	9.6587780	411	9.9494292	108	9.7093488	519	0.2906512	0	53
	30	9.6589013	411	9.9493968	108	9.7095045	519	0.2904955	30	
8	0	9.6590246	411	9.9493645	108	9.7096601	519	0.2903399	0	52
	30	9.6591478	411	9.9493321	108	9.7098158	518	0.2901842	30	
9	0	9.6592710	411	9.9492997	108	9.7099713	519	0.2900287	0	51
	30	9.6593942	410	9.9492673	108	9.7101269	518	0.2898731	30	
10	0	9.6595173	410	9.9492349	108	9.7102824	518	0.2897176	0	50
	30	9.6596405	410	9.9492025	109	9.7104379	518	0.2895621	30	
11	0	9.6597633	410	9.9491700	108	9.7105933	518	0.2894067	0	49
	30	9.6598863	410	9.9491376	108	9.7107487	518	0.2892513	30	
12	0	9.6600093	409	9.9491051	108	9.7109041	518	0.2890959	0	48
	30	9.6601321	410	9.9490727	109	9.7110595	518	0.2889405	30	
13	0	9.6602550	409	9.9490402	109	9.7112148	518	0.2887852	0	47
	30	9.6603778	409	9.9490077	109	9.7113701	518	0.2886299	30	
14	0	9.6605005	409	9.9489752	109	9.7115254	517	0.2884746	0	46
	30	9.6606232	409	9.9489427	109	9.7116806	517	0.2883194	30	
15	0	9.6607459	409	9.9489101	108	9.7118358	517	0.2881642	0	45
	30	9.6608685	409	9.9488776	109	9.7119909	517	0.2880091	30	
16	0	9.6609911	409	9.9488450	108	9.7121461	517	0.2878539	0	44
	30	9.6611136	409	9.9488125	109	9.7123012	516	0.2876988	30	
17	0	9.6612361	408	9.9487799	108	9.7124562	517	0.2875438	0	43
	30	9.6613586	408	9.9487473	108	9.7126112	517	0.2873888	30	
18	0	9.6614810	408	9.9487147	108	9.7127662	517	0.2872338	0	42
	30	9.6616033	408	9.9486821	108	9.7129212	517	0.2870788	30	
19	0	9.6617257	407	9.9486495	109	9.7130761	517	0.2869239	0	41
	30	9.6618479	408	9.9486169	109	9.7132311	516	0.2867689	30	
20	0	9.6619702	407	9.9485842	109	9.7133859	516	0.2866141	0	40
	30	9.6620923	408	9.9485516	109	9.7135408	516	0.2864592	30	
21	0	9.6622145	407	9.9485189	109	9.7136956	516	0.2863044	0	39
	30	9.6623366	407	9.9484862	109	9.7138503	516	0.2861497	30	
22	0	9.6624586	407	9.9484535	109	9.7140051	516	0.2859949	0	38
	30	9.6625806	407	9.9484208	109	9.7141598	516	0.2858402	30	
23	0	9.6627026	407	9.9483881	109	9.7143145	515	0.2856855	0	37
	30	9.6628245	407	9.9483554	109	9.7144691	516	0.2855309	30	
24	0	9.6629464	407	9.9483227	109	9.7146237	516	0.2853763	0	36
	30	9.6630682	407	9.9482899	109	9.7147783	516	0.2852217	30	
25	0	9.6631900	406	9.9482572	110	9.7149329	515	0.2850671	0	35
	30	9.6633118	406	9.9482244	109	9.7150874	515	0.2849126	30	
26	0	9.6634335	406	9.9481916	109	9.7152419	515	0.2847581	0	34
	30	9.6635552	425	9.9481588	109	9.7153964	514	0.2846036	30	
27	0	9.6636768	405	9.9481250	109	9.7155508	514	0.2844492	0	33
	30	9.6637984	405	9.9480922	110	9.7157052	514	0.2842948	30	
28	0	9.6639199	405	9.9480594	110	9.7158595	515	0.2841405	0	32
	30	9.6640414	405	9.9480275	109	9.7160139	514	0.2839861	30	
29	0	9.6641628	405	9.9479947	110	9.7161682	514	0.2838318	0	31
	30	9.6642842	405	9.9479618	110	9.7163224	515	0.2836776	30	
30	0	9.6644056		9.9479289		9.7164767		0.2835233	0	30
/	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	/

62 deg.

27 deg.

/	/	l. sin.	dif. 10''	l. cosin.	dif. 10''	l. tang.	dif. 10''	l. cotan.	//	/
30	o	9.6644056	404	9.9479289	109	9.7164767	514	0.2835233	o	30
	30	9.6645259	404	9.9478960	109	9.7166309	514	0.2833691	30	
31	o	9.6645482	404	9.9478631	109	9.7167851	513	0.2832149	o	29
	30	9.6647694	404	9.9478302	109	9.7169392	514	0.2830608	30	
32	o	9.6648906	404	9.9477973	110	9.7170933	514	0.2829067	o	28
	30	9.6650118	403	9.9477644	110	9.7172474	513	0.2827526	30	
33	o	9.6651329	403	9.9477314	110	9.7174014	514	0.2825986	o	27
	30	9.6652539	404	9.9476985	110	9.7175555	513	0.2824445	30	
34	o	9.6653749	404	9.9476655	110	9.7177094	514	0.2822906	o	26
	30	9.6654959	403	9.9476325	110	9.7178634	513	0.2821366	30	
35	o	9.6656168	403	9.9475995	110	9.7180173	513	0.2819827	o	25
	30	9.6657377	403	9.9475665	110	9.7181712	513	0.2818288	30	
36	o	9.6658586	403	9.9475335	110	9.7183251	513	0.2816749	o	24
	30	9.6659794	402	9.9475005	110	9.7184789	513	0.2815211	30	
37	o	9.6661001	403	9.9474674	110	9.7186327	513	0.2813673	o	23
	30	9.6662209	402	9.9474344	110	9.7187865	512	0.2812135	30	
38	o	9.6663415	403	9.9474013	110	9.7189402	513	0.2810598	o	22
	30	9.6664622	402	9.9473682	110	9.7190939	513	0.2809058	30	
39	o	9.6665828	401	9.9473352	111	9.7192476	512	0.2807524	o	21
	30	9.6667033	402	9.9473021	111	9.7194013	512	0.2805987	30	
40	o	9.6668238	402	9.9472689	110	9.7195549	512	0.2804451	o	20
	30	9.6669443	401	9.9472358	110	9.7197084	512	0.2802916	30	
41	o	9.6670647	401	9.9472027	111	9.7198620	512	0.2801380	o	19
	30	9.6671851	401	9.9471695	110	9.7200155	512	0.2799845	30	
42	o	9.6673054	401	9.9471364	111	9.7201690	512	0.2798310	o	18
	30	9.6674257	401	9.9471032	110	9.7203225	511	0.2796775	30	
43	o	9.6675459	401	9.9470700	110	9.7204759	511	0.2795241	o	17
	30	9.6676662	400	9.9470369	111	9.7206293	511	0.2793707	30	
44	o	9.6677863	401	9.9470036	110	9.7207827	511	0.2792173	o	16
	30	9.6679064	401	9.9469704	110	9.7209360	511	0.2790640	30	
45	o	9.6680265	400	9.9469372	111	9.7210893	511	0.2789107	o	15
	30	9.6681466	400	9.9469040	111	9.7212426	511	0.2787574	30	
46	o	9.6682665	400	9.9468707	111	9.7213958	511	0.2786042	o	14
	30	9.6683865	400	9.9468375	111	9.7215490	511	0.2784510	30	
47	o	9.6685064	400	9.9468042	111	9.7217022	511	0.2782978	o	13
	30	9.6686263	399	9.9467709	111	9.7218554	510	0.2781446	30	
48	o	9.6687461	399	9.9467376	111	9.7220085	510	0.2779915	o	12
	30	9.6688659	399	9.9467043	111	9.7221616	510	0.2778384	30	
49	o	9.6689856	399	9.9466710	111	9.7223147	510	0.2776853	o	11
	30	9.6691053	399	9.9466376	111	9.7224677	510	0.2775323	30	
50	o	9.6692250	399	9.9466043	111	9.7226207	510	0.2773793	o	10
	30	9.6693446	399	9.9465709	111	9.7227737	509	0.2772263	30	
51	o	9.6694642	398	9.9465376	112	9.7229266	510	0.2770734	o	9
	30	9.6695837	398	9.9465042	111	9.7230795	510	0.2769205	30	
52	o	9.6697033	398	9.9464708	111	9.7232324	509	0.2767676	o	8
	30	9.6698228	398	9.9464374	111	9.7233852	510	0.2766148	30	
53	o	9.6699420	398	9.9464040	112	9.7235381	509	0.2764619	o	7
	30	9.6700614	398	9.9463705	112	9.7236909	509	0.2763091	30	
54	o	9.6701807	398	9.9463371	111	9.7238436	509	0.2761564	o	6
	30	9.6703000	397	9.9463037	112	9.7239963	509	0.2760037	30	
55	o	9.6704192	398	9.9462702	112	9.7241490	509	0.2758510	o	5
	30	9.6705384	397	9.9462367	111	9.7243017	509	0.2756983	30	
56	o	9.6706576	397	9.9462032	111	9.7244543	509	0.2755457	o	4
	30	9.6707767	397	9.9461697	111	9.7246069	509	0.2753931	30	
57	o	9.6708958	396	9.9461362	111	9.7247595	509	0.2752405	o	3
	30	9.6710148	396	9.9461027	112	9.7249121	508	0.2750879	30	
58	o	9.6711338	396	9.9460692	112	9.7250646	508	0.2749354	o	2
	30	9.6712527	397	9.9460356	112	9.7252171	508	0.2747829	30	
59	o	9.6713716	396	9.9460021	112	9.7253695	509	0.2746305	o	1
	30	9.6714905	395	9.9459685	112	9.7255220	508	0.2744780	30	
60	o	9.6716093		9.9459349		9.7256744		0.2743256	o	0
/	//	l. cosin.	dif. 10''	l. sin.	dif. 10''	l. cotan.	dif. 10''	l. tang.	//	/

62 deg.

28 deg.

"	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	"
0	0	9.6716093	396	9.9459349	112	9.7256744	503	0.2743256	0	60
	30	9.6717281	396	9.9459013	112	9.7258267	505	0.2741733	30	
1	0	9.6718468	396	9.9458677	112	9.7259791	507	0.2740209	0	59
	30	9.6719655	396	9.9458341	112	9.7261314	507	0.2738686	30	
2	0	9.6720841	396	9.9458005	112	9.7262837	507	0.2737163	0	58
	30	9.6722028	395	9.9457669	113	9.7264359	507	0.2735641	30	
3	0	9.6723213	395	9.9457332	112	9.7265881	508	0.2734119	0	57
	30	9.6724399	395	9.9456995	112	9.7267403	507	0.2732597	30	
4	0	9.6725583	395	9.9456659	113	9.7268925	507	0.2731075	0	56
	30	9.6726768	395	9.9456322	113	9.7270446	507	0.2729554	30	
5	0	9.6727952	394	9.9455985	113	9.7271967	507	0.2728033	0	55
	30	9.6729135	395	9.9455648	113	9.7273483	507	0.2726512	30	
6	0	9.6730319	394	9.9455310	112	9.7275003	507	0.2724992	0	54
	30	9.6731501	395	9.9454973	112	9.7276528	507	0.2723472	30	
7	0	9.6732684	394	9.9454636	113	9.7278048	507	0.2721952	0	53
	30	9.6733866	394	9.9454298	112	9.7279568	506	0.2720432	30	
8	0	9.6735047	394	9.9453960	112	9.7281087	506	0.2718913	0	52
	30	9.6736228	394	9.9453623	113	9.7282606	506	0.2717394	30	
9	0	9.6737409	394	9.9453285	113	9.7284124	507	0.2715876	0	51
	30	9.6738589	394	9.9452947	113	9.7285643	506	0.2714357	30	
10	0	9.6739769	393	9.9452609	113	9.7287161	506	0.2712839	0	50
	30	9.6740949	393	9.9452270	113	9.7288679	505	0.2711321	30	
11	0	9.6742128	393	9.9451932	113	9.7290196	505	0.2709804	0	49
	30	9.6743306	393	9.9451593	113	9.7291713	506	0.2708287	30	
12	0	9.6744485	392	9.9451255	113	9.7293230	506	0.2706770	0	48
	30	9.6745663	392	9.9450916	113	9.7294747	505	0.2705253	30	
13	0	9.6746840	392	9.9450577	113	9.7296263	505	0.2703737	0	47
	30	9.6748017	392	9.9450238	113	9.7297779	505	0.2702221	30	
14	0	9.6749194	392	9.9449899	113	9.7299295	505	0.2700705	0	46
	30	9.6750370	392	9.9449560	113	9.7300810	505	0.2699190	30	
15	0	9.6751546	391	9.9449220	113	9.7302325	505	0.2697675	0	45
	30	9.6752721	392	9.9448881	113	9.7303840	505	0.2696160	30	
16	0	9.6753896	391	9.9448541	113	9.7305354	505	0.2694646	0	44
	30	9.6755070	392	9.9448202	114	9.7306869	504	0.2693131	30	
17	0	9.6756245	391	9.9447862	113	9.7308383	504	0.2691617	0	43
	30	9.6757418	391	9.9447522	113	9.7309896	505	0.2690104	30	
18	0	9.6758592	391	9.9447182	113	9.7311410	504	0.2688590	0	42
	30	9.6759764	391	9.9446842	114	9.7312923	504	0.2687077	30	
19	0	9.6760937	391	9.9446501	113	9.7314436	504	0.2685564	0	41
	30	9.6762109	391	9.9446161	113	9.7315948	504	0.2684052	30	
20	0	9.6763281	390	9.9445821	114	9.7317460	504	0.2682540	0	40
	30	9.6764452	390	9.9445480	114	9.7318972	504	0.2681028	30	
21	0	9.6765623	390	9.9445139	114	9.7320484	504	0.2679516	0	39
	30	9.6766793	390	9.9444798	113	9.7321995	504	0.2678005	30	
22	0	9.6767963	390	9.9444457	113	9.7323506	504	0.2676494	0	38
	30	9.6769133	390	9.9444116	114	9.7325017	503	0.2674983	30	
23	0	9.6770302	390	9.9443775	114	9.7326527	503	0.2673473	0	37
	30	9.6771471	390	9.9443433	113	9.7328038	503	0.2671962	30	
24	0	9.6772640	389	9.9443092	114	9.7329547	504	0.2670453	0	36
	30	9.6773808	389	9.9442750	113	9.7331057	503	0.2668943	30	
25	0	9.6774975	389	9.9442409	114	9.7332566	503	0.2667434	0	35
	30	9.6776142	389	9.9442067	114	9.7334075	503	0.2665925	30	
26	0	9.6777309	389	9.9441725	114	9.7335584	503	0.2664416	0	34
	30	9.6778476	389	9.9441383	114	9.7337093	502	0.2662907	30	
27	0	9.6779642	388	9.9441041	114	9.7338601	503	0.2661399	0	33
	30	9.6780807	389	9.9440698	114	9.7340109	502	0.2659891	30	
28	0	9.6781972	389	9.9440356	114	9.7341616	503	0.2658384	0	32
	30	9.6783137	389	9.9440013	114	9.7343124	502	0.2656876	30	
29	0	9.6784301	389	9.9439671	115	9.7344631	502	0.2655367	0	31
	30	9.6785465	389	9.9439328	114	9.7346137	503	0.2653863	30	
30	0	9.6786629		9.9438985		9.7347644		0.2652356	0	30
			10"		10"		10"			
"	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

61 deg.

21\*

28 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.6786629	388	9.9438985	114	9.7347644	502	0.2652356	0	30
	30	9.6787792	388	9.9438642	114	9.7349150	502	0.2650350	30	
31	0	9.6788955	387	9.9438299	115	9.7350656	502	0.2649344	0	29
	30	9.6790117	388	9.9437956	115	9.7352162	501	0.2647838	30	
32	0	9.6791279	387	9.9437612	114	9.7353667	502	0.2646333	0	28
	30	9.6792441	387	9.9437269	115	9.7355172	502	0.2644828	30	
33	0	9.6793602	387	9.9436925	114	9.7356677	501	0.2643323	0	27
	30	9.6794763	387	9.9436581	114	9.7358181	502	0.2641819	30	
34	0	9.6795923	387	9.9436238	115	9.7359685	502	0.2640315	0	26
	30	9.6797083	387	9.9435894	115	9.7361189	502	0.2638811	30	
35	0	9.6798243	386	9.9435549	114	9.7362693	501	0.2637307	0	25
	30	9.6799402	386	9.9435205	114	9.7364196	501	0.2635803	30	
36	0	9.6800560	387	9.9434861	115	9.7365699	501	0.2634301	0	24
	30	9.6801719	386	9.9434516	114	9.7367202	501	0.2632798	30	
37	0	9.6802877	386	9.9434172	115	9.7368705	501	0.2631295	0	23
	30	9.6804034	386	9.9433827	115	9.7370207	501	0.2629793	30	
38	0	9.6805191	386	9.9433482	115	9.7371709	501	0.2628291	0	22
	30	9.6806348	386	9.9433138	115	9.7373211	500	0.2626789	30	
39	0	9.6807504	386	9.9432792	115	9.7374712	500	0.2625288	0	21
	30	9.6808660	386	9.9432447	115	9.7376213	500	0.2623787	30	
40	0	9.6809816	385	9.9432102	115	9.7377714	500	0.2622286	0	20
	30	9.6810971	385	9.9431757	116	9.7379214	501	0.2620786	30	
41	0	9.6812126	385	9.9431411	115	9.7380715	500	0.2619285	0	19
	30	9.6813280	385	9.9431065	115	9.7382215	500	0.2617785	30	
42	0	9.6814434	385	9.9430720	116	9.7383714	500	0.2616286	0	18
	30	9.6815588	384	9.9430374	116	9.7385214	500	0.2614786	30	
43	0	9.6816741	384	9.9430028	116	9.7386713	500	0.2613287	0	17
	30	9.6817894	384	9.9429682	116	9.7388212	499	0.2611788	30	
44	0	9.6819046	384	9.9429335	115	9.7389710	500	0.2610290	0	16
	30	9.6820198	384	9.9428989	115	9.7391209	499	0.2608791	30	
45	0	9.6821349	384	9.9428643	116	9.7392707	499	0.2607293	0	15
	30	9.6822501	383	9.9428296	116	9.7394205	499	0.2605795	30	
46	0	9.6823651	384	9.9427949	115	9.7395702	499	0.2604298	0	14
	30	9.6824802	383	9.9427602	115	9.7397199	499	0.2602801	30	
47	0	9.6825952	383	9.9427255	115	9.7398696	499	0.2601304	0	13
	30	9.6827101	383	9.9426908	115	9.7400193	499	0.2599807	30	
48	0	9.6828250	383	9.9426561	116	9.7401689	499	0.2598311	0	12
	30	9.6829399	383	9.9426214	116	9.7403185	499	0.2596815	30	
49	0	9.6830548	382	9.9425866	115	9.7404681	499	0.2595319	0	11
	30	9.6831696	382	9.9425519	116	9.7406177	498	0.2593823	30	
50	0	9.6832843	383	9.9425171	116	9.7407672	498	0.2592328	0	10
	30	9.6833990	383	9.9424823	116	9.7409167	498	0.2590833	30	
51	0	9.6835137	382	9.9424476	116	9.7410662	498	0.2589338	0	9
	30	9.6836284	382	9.9424128	117	9.7412155	498	0.2587844	30	
52	0	9.6837430	381	9.9423779	116	9.7413650	498	0.2586350	0	8
	30	9.6838575	382	9.9423431	116	9.7415144	498	0.2584856	30	
53	0	9.6839720	382	9.9423083	116	9.7416638	498	0.2583362	0	7
	30	9.6840865	382	9.9422734	116	9.7418131	498	0.2581869	30	
54	0	9.6842010	381	9.9422386	117	9.7419624	498	0.2580376	0	6
	30	9.6843154	381	9.9422037	116	9.7421117	497	0.2578883	30	
55	0	9.6844297	381	9.9421688	116	9.7422609	498	0.2577391	0	5
	30	9.6845441	381	9.9421339	116	9.7424102	497	0.2575898	30	
56	0	9.6846583	381	9.9420990	117	9.7425594	497	0.2574406	0	4
	30	9.6847726	381	9.9420641	117	9.7427085	498	0.2572915	30	
57	0	9.6848868	381	9.9420291	116	9.7428577	497	0.2571423	0	3
	30	9.6850010	380	9.9419942	117	9.7430068	497	0.2569932	30	
58	0	9.6851151	380	9.9419592	116	9.7431559	497	0.2568441	0	2
	30	9.6852292	380	9.9419242	116	9.7433049	497	0.2566951	30	
59	0	9.6853432	381	9.9418893	117	9.7434540	497	0.2565460	0	1
	30	9.6854573	380	9.9418543	117	9.7436030	497	0.2563970	30	
60	0	9.6855712		9.9418193		9.7437520		0.2562480	0	0
			10"		10"		10"			
'	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	'

61 deg.



29 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	'	°
0	0	9.6855712	380	9.9418193	117	9.7437520	496	0.2552480	0	60
	30	9.6856852	379	9.9417842	116	9.7439009	497	0.2550991	30	
1	0	9.6857991	379	9.9417492	117	9.7440499	496	0.2559501	0	59
	30	9.6859129	380	9.9417142	117	9.7441987	497	0.2558013	30	
2	0	9.6860267	380	9.9416791	117	9.7443475	495	0.2556524	0	58
	30	9.6861405	379	9.9416440	116	9.7444965	496	0.2555035	30	
3	0	9.6862542	380	9.9416090	117	9.7446453	496	0.2553547	0	57
	30	9.6863679	379	9.9415739	117	9.7447941	496	0.2552059	30	
4	0	9.6864816	379	9.9415388	117	9.7449428	495	0.2550572	0	56
	30	9.6865952	379	9.9415037	118	9.7450916	496	0.2549084	30	
5	0	9.6867088	379	9.9414685	117	9.7452403	496	0.2547597	0	55
	30	9.6868224	378	9.9414334	117	9.7453890	495	0.2546110	30	
6	0	9.6869359	378	9.9413982	117	9.7455376	496	0.2544624	0	54
	30	9.6870493	378	9.9413631	118	9.7456863	495	0.2543137	30	
7	0	9.6871628	378	9.9413279	117	9.7458349	495	0.2541651	0	53
	30	9.6872761	378	9.9412927	117	9.7459834	496	0.2540165	30	
8	0	9.6873895	378	9.9412575	117	9.7461320	495	0.2538680	0	52
	30	9.6875028	378	9.9412223	117	9.7462805	495	0.2537195	30	
9	0	9.6876161	377	9.9411871	118	9.7464290	495	0.2535710	0	51
	30	9.6877293	378	9.9411518	117	9.7465775	495	0.2534225	30	
10	0	9.6878425	377	9.9411156	118	9.7467259	495	0.2532741	0	50
	30	9.6879557	377	9.9410813	117	9.7468743	495	0.2531257	30	
11	0	9.6880688	377	9.9410461	118	9.7470227	495	0.2529773	0	49
	30	9.6881819	377	9.9410108	118	9.7471711	494	0.2528289	30	
12	0	9.6882949	377	9.9409755	118	9.7473194	495	0.2526806	0	48
	30	9.6884079	377	9.9409402	118	9.7474677	495	0.2525323	30	
13	0	9.6885209	376	9.9409048	117	9.7476160	494	0.2523840	0	47
	30	9.6886338	376	9.9408695	118	9.7477643	494	0.2522357	30	
14	0	9.6887467	376	9.9408342	118	9.7479125	494	0.2520875	0	46
	30	9.6888595	376	9.9407988	118	9.7480607	494	0.2519393	30	
15	0	9.6889723	376	9.9407634	117	9.7482089	494	0.2517911	0	45
	30	9.6890851	376	9.9407281	118	9.7483570	494	0.2516430	30	
16	0	9.6891978	375	9.9406927	118	9.7485052	493	0.2514948	0	44
	30	9.6893105	375	9.9406573	118	9.7486533	493	0.2513467	30	
17	0	9.6894232	376	9.9406219	119	9.7488013	494	0.2511987	0	43
	30	9.6895358	375	9.9405864	118	9.7489494	493	0.2510506	30	
18	0	9.6896484	375	9.9405510	118	9.7490974	493	0.2509026	0	42
	30	9.6897609	375	9.9405155	118	9.7492454	493	0.2507546	30	
19	0	9.6898734	375	9.9404801	119	9.7493934	493	0.2506065	0	41
	30	9.6899859	375	9.9404446	118	9.7495413	493	0.2504587	30	
20	0	9.6900983	375	9.9404091	118	9.7496892	493	0.2503103	0	40
	30	9.6902107	375	9.9403736	118	9.7498371	493	0.2501622	30	
21	0	9.6903231	374	9.9403381	119	9.7499850	493	0.2500150	0	39
	30	9.6904354	374	9.9403026	119	9.7501328	493	0.2498672	30	
22	0	9.6905476	375	9.9402670	118	9.7502806	493	0.2497194	0	38
	30	9.6906599	374	9.9402315	119	9.7504284	493	0.2495716	30	
23	0	9.6907721	374	9.9401959	118	9.7505762	492	0.2494238	0	37
	30	9.6908844	374	9.9401603	118	9.7507239	492	0.2492761	30	
24	0	9.6909964	373	9.9401248	119	9.7508716	492	0.2491284	0	36
	30	9.6911084	374	9.9400892	119	9.7510193	492	0.2489807	30	
25	0	9.6912205	373	9.9400535	118	9.7511669	492	0.2488331	0	35
	30	9.6913325	373	9.9400179	119	9.7513146	492	0.2486854	30	
26	0	9.6914445	373	9.9399823	119	9.7514622	492	0.2485378	0	34
	30	9.6915564	373	9.9399466	118	9.7516097	492	0.2483903	30	
27	0	9.6916683	373	9.9399110	119	9.7517573	492	0.2482427	0	33
	30	9.6917801	373	9.9398753	119	9.7519048	492	0.2480952	30	
28	0	9.6918919	373	9.9398396	119	9.7520523	492	0.2479477	0	32
	30	9.6920037	373	9.9398039	119	9.7521998	491	0.2478002	30	
29	0	9.6921155	372	9.9397682	119	9.7523472	492	0.2476528	0	31
	30	9.6922272	372	9.9397325	119	9.7524947	491	0.2475053	30	
30	0	9.6923388		9.9396968		9.7526420		0.2473580	0	30
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

60 deg.

29 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.6923388	372	9.9396568	119	9.7526420	492	0.2473580	0	30
	30	9.6924504	372	9.9396610	119	9.7527874	491	0.2472106	30	
31	0	9.6925620	372	9.9396653	119	9.7529368	491	0.2470632	0	29
	30	9.6926736	372	9.9396695	119	9.7530841	491	0.2469159	30	
32	0	9.6927851	372	9.9396737	119	9.7532314	491	0.2467686	0	28
	30	9.6928966	371	9.9396779	119	9.7533786	491	0.2466214	30	
33	0	9.6930080	371	9.9396821	119	9.7535259	491	0.2464741	0	27
	30	9.6931194	371	9.9396863	119	9.7536731	491	0.2463269	30	
34	0	9.6932308	371	9.9396905	120	9.7538203	490	0.2461797	0	26
	30	9.6933421	371	9.9396946	119	9.7539674	491	0.2460326	30	
35	0	9.6934534	371	9.9396988	120	9.7541146	490	0.2458854	0	25
	30	9.6935646	371	9.9397029	119	9.7542617	490	0.2457383	30	
36	0	9.6936758	371	9.9397071	120	9.7544088	490	0.2455912	0	24
	30	9.6937870	371	9.9397112	120	9.7545558	491	0.2454442	30	
37	0	9.6938981	371	9.9397153	120	9.7547029	490	0.2452971	0	23
	30	9.6940092	371	9.9397194	119	9.7548499	490	0.2451501	30	
38	0	9.6941203	370	9.9397234	120	9.7549969	490	0.2450031	0	22
	30	9.6942313	370	9.9397275	120	9.7551438	490	0.2448562	30	
39	0	9.6943423	370	9.9397315	119	9.7552908	489	0.2447092	0	21
	30	9.6944533	369	9.9397356	120	9.7554377	489	0.2445623	30	
40	0	9.6945642	369	9.9387396	120	9.7555846	489	0.2444154	0	20
	30	9.6946750	370	9.9387436	120	9.7557314	489	0.2442685	30	
41	0	9.6947859	369	9.9387476	120	9.7558783	489	0.2441217	0	19
	30	9.6948967	369	9.9387516	120	9.7560251	489	0.2439749	30	
42	0	9.6950074	369	9.9387556	120	9.7561718	490	0.2438282	0	18
	30	9.6951182	369	9.9387595	120	9.7563186	489	0.2436814	30	
43	0	9.6952288	369	9.9387635	120	9.7564653	489	0.2435347	0	17
	30	9.6953395	369	9.9387674	120	9.7566120	489	0.2433880	30	
44	0	9.6954501	369	9.9387714	121	9.7567587	489	0.2432413	0	16
	30	9.6955607	368	9.9387753	120	9.7569054	489	0.2430946	30	
45	0	9.6956712	368	9.9387792	120	9.7570520	489	0.2429480	0	15
	30	9.6957817	368	9.9387831	121	9.7571986	489	0.2428014	30	
46	0	9.6958922	368	9.9387870	121	9.7573452	489	0.2426548	0	14
	30	9.6960026	368	9.9387909	120	9.7574918	488	0.2425082	30	
47	0	9.6961130	368	9.9387947	121	9.7576383	488	0.2423617	0	13
	30	9.6962233	368	9.9387985	120	9.7577848	488	0.2422152	30	
48	0	9.6963336	368	9.9388024	121	9.7579313	488	0.2420687	0	12
	30	9.6964439	368	9.9388062	121	9.7580777	488	0.2419223	30	
49	0	9.6965541	368	9.9388100	121	9.7582242	488	0.2417758	0	11
	30	9.6966643	368	9.9388138	121	9.7583706	488	0.2416294	30	
50	0	9.6967745	367	9.9388176	121	9.7585170	487	0.2414830	0	10
	30	9.6968846	367	9.9388213	121	9.7586633	488	0.2413367	30	
51	0	9.6969947	367	9.9388251	121	9.7588096	488	0.2411904	0	9
	30	9.6971048	367	9.9388288	121	9.7589559	488	0.2410441	30	
52	0	9.6972148	367	9.9388326	121	9.7591022	488	0.2408978	0	8
	30	9.6973248	366	9.9388363	121	9.7592485	487	0.2407515	30	
53	0	9.6974347	366	9.9388400	121	9.7593947	488	0.2406053	0	7
	30	9.6975446	366	9.9388437	121	9.7595409	488	0.2404591	30	
54	0	9.6976545	366	9.9388474	121	9.7596871	487	0.2403129	0	6
	30	9.6977643	366	9.9388510	121	9.7598333	487	0.2401667	30	
55	0	9.6978741	366	9.9388547	121	9.7599794	487	0.2400206	0	5
	30	9.6979839	365	9.9388584	122	9.7601255	487	0.2398745	30	
56	0	9.6980936	365	9.9388620	121	9.7602716	487	0.2397284	0	4
	30	9.6982033	365	9.9388656	121	9.7604176	487	0.2395824	30	
57	0	9.6983129	365	9.9388692	121	9.7605637	487	0.2394363	0	3
	30	9.6984225	365	9.9388728	121	9.7607097	487	0.2392903	30	
58	0	9.6985321	365	9.9388764	121	9.7608557	486	0.2391443	0	2
	30	9.6986416	365	9.9388800	122	9.7610016	487	0.2389984	30	
59	0	9.6987511	365	9.9388835	121	9.7611476	486	0.2388524	0	1
	30	9.6988606	365	9.9388871	122	9.7612935	486	0.2387065	30	
60	0	9.6989700		9.9375306		9.7614394		0.2385606	0	0
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

60 deg.

30 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.6989700	365	9.9375306	121	9.7614394	486	0.2385606	0	60
	30	9.6990794	364	9.9374642	122	9.7615852	487	0.2384148	0	30
1	0	9.6991837	365	9.9374577	122	9.7617311	486	0.2382689	0	59
	30	9.6992981	364	9.9374212	122	9.7618769	486	0.2381231	0	30
2	0	9.6994073	365	9.9373847	122	9.7620227	486	0.2379773	0	58
	30	9.6995166	364	9.9373481	121	9.7621684	486	0.2378316	0	30
3	0	9.6996258	364	9.9373116	122	9.7623142	486	0.2376858	0	57
	30	9.6997349	364	9.9372751	122	9.7624599	486	0.2375401	0	30
4	0	9.6998441	363	9.9372385	122	9.7626056	485	0.2373944	0	56
	30	9.6999532	363	9.9372019	122	9.7627513	485	0.2372487	0	30
5	0	9.7000622	364	9.9371653	122	9.7628969	485	0.2371031	0	55
	30	9.7001713	363	9.9371287	122	9.7630425	486	0.2369575	0	30
6	0	9.7002802	364	9.9370921	122	9.7631881	485	0.2368119	0	54
	30	9.7003892	363	9.9370555	122	9.7633337	485	0.2366663	0	30
7	0	9.7004981	363	9.9370189	122	9.7634792	485	0.2365208	0	53
	30	9.7006070	363	9.9369822	122	9.7636247	485	0.2363753	0	30
8	0	9.7007158	363	9.9369456	123	9.7637702	485	0.2362298	0	52
	30	9.7008246	363	9.9369089	122	9.7639157	485	0.2360843	0	30
9	0	9.7009334	362	9.9368722	122	9.7640612	484	0.2359388	0	51
	30	9.7010421	362	9.9368355	122	9.7642066	485	0.2357934	0	30
10	0	9.7011508	362	9.9367988	122	9.7643520	485	0.2356480	0	50
	30	9.7012595	362	9.9367621	123	9.7644974	484	0.2355026	0	30
11	0	9.7013681	362	9.9367254	123	9.7646427	485	0.2353573	0	49
	30	9.7014767	361	9.9366886	122	9.7647881	484	0.2352119	0	30
12	0	9.7015852	362	9.9366519	123	9.7649334	484	0.2350666	0	48
	30	9.7016937	362	9.9366151	123	9.7650786	485	0.2349214	0	30
13	0	9.7018022	361	9.9365783	123	9.7652239	484	0.2347761	0	47
	30	9.7019106	362	9.9365415	123	9.7653691	484	0.2346309	0	30
14	0	9.7020190	362	9.9365047	123	9.7655143	484	0.2344857	0	46
	30	9.7021274	361	9.9364679	123	9.7656595	484	0.2343405	0	30
15	0	9.7022357	361	9.9364311	123	9.7658047	484	0.2341953	0	45
	30	9.7023440	361	9.9363942	123	9.7659498	484	0.2340502	0	30
16	0	9.7024523	361	9.9363574	123	9.7660949	484	0.2339051	0	44
	30	9.7025605	361	9.9363205	123	9.7662400	484	0.2337600	0	30
17	0	9.7026687	360	9.9362836	123	9.7663851	483	0.2336149	0	43
	30	9.7027768	361	9.9362467	123	9.7665301	484	0.2334699	0	30
18	0	9.7028849	361	9.9362098	123	9.7666751	484	0.2333249	0	42
	30	9.7029930	360	9.9361729	123	9.7668201	484	0.2331799	0	30
19	0	9.7031011	360	9.9361360	124	9.7669651	483	0.2330349	0	41
	30	9.7032091	360	9.9360990	123	9.7671101	483	0.2328899	0	30
20	0	9.7033170	360	9.9360621	124	9.7672550	483	0.2327450	0	40
	30	9.7034250	359	9.9360251	123	9.7673999	483	0.2326001	0	30
21	0	9.7035329	359	9.9359881	123	9.7675448	482	0.2324552	0	39
	30	9.7036407	360	9.9359511	123	9.7676896	483	0.2323104	0	30
22	0	9.7037486	359	9.9359141	123	9.7678344	483	0.2321656	0	38
	30	9.7038563	360	9.9358771	123	9.7679792	483	0.2320208	0	30
23	0	9.7039641	359	9.9358401	124	9.7681240	483	0.2318760	0	37
	30	9.7040718	359	9.9358030	124	9.7682688	482	0.2317312	0	30
24	0	9.7041795	359	9.9357660	123	9.7684135	482	0.2315865	0	36
	30	9.7042871	359	9.9357289	123	9.7685582	483	0.2314418	0	30
25	0	9.7043947	359	9.9356918	123	9.7687029	482	0.2312971	0	35
	30	9.7045023	359	9.9356548	124	9.7688476	482	0.2311524	0	30
26	0	9.7046099	358	9.9356177	124	9.7689922	482	0.2310078	0	34
	30	9.7047174	358	9.9355805	123	9.7691368	482	0.2308632	0	30
27	0	9.7048248	358	9.9355434	124	9.7692814	482	0.2307185	0	33
	30	9.7049323	358	9.9355063	124	9.7694260	482	0.2305740	0	30
28	0	9.7050397	357	9.9354691	124	9.7695705	482	0.2304295	0	32
	30	9.7051470	358	9.9354320	124	9.7697151	481	0.2302849	0	30
29	0	9.7052543	358	9.9353948	124	9.7698596	481	0.2301404	0	31
	30	9.7053616	358	9.9353576	124	9.7700040	482	0.2299960	0	30
30	0	9.7054689		9.9353204		9.7701485		0.2298515	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

59 deg.

30 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.7054689	357	9.9353204	124	9.7701485	481	0.2298515	0	30
	30	9.7055761	357	9.9352832	124	9.7702722	482	0.2297071	30	
31	0	9.7056833	357	9.9352459	124	9.7704373	482	0.2295627	0	29
	30	9.7057904	357	9.9352087	124	9.7705817	481	0.2294183	30	
32	0	9.7058975	357	9.9351715	125	9.7707261	481	0.2292739	0	28
	30	9.7060046	357	9.9351342	124	9.7708704	481	0.2291296	30	
33	0	9.7061116	357	9.9350969	124	9.7710147	481	0.2289853	0	27
	30	9.7062186	357	9.9350596	124	9.7711590	481	0.2288410	30	
34	0	9.7063256	357	9.9350223	124	9.7713033	481	0.2286967	0	26
	30	9.7064325	357	9.9349850	124	9.7714475	481	0.2285525	30	
35	0	9.7065394	357	9.9349477	124	9.7715917	481	0.2284083	0	25
	30	9.7066463	356	9.9349104	125	9.7717359	481	0.2282641	30	
36	0	9.7067531	356	9.9348730	124	9.7718801	481	0.2281199	0	24
	30	9.7068599	356	9.9348356	124	9.7720243	480	0.2279757	30	
37	0	9.7069667	355	9.9347983	125	9.7721684	480	0.2278316	0	23
	30	9.7070734	355	9.9347609	125	9.7723125	480	0.2276875	30	
38	0	9.7071801	355	9.9347235	125	9.7724566	480	0.2275434	0	22
	30	9.7072867	356	9.9346861	125	9.7726006	481	0.2273994	30	
39	0	9.7073933	356	9.9346486	124	9.7727447	480	0.2272553	0	21
	30	9.7074999	355	9.9346112	125	9.7728887	480	0.2271113	30	
40	0	9.7076064	355	9.9345738	125	9.7730327	480	0.2269673	0	20
	30	9.7077129	355	9.9345363	125	9.7731766	480	0.2268234	30	
41	0	9.7078194	355	9.9344988	125	9.7733206	480	0.2266794	0	19
	30	9.7079259	354	9.9344613	125	9.7734645	480	0.2265355	30	
42	0	9.7080323	354	9.9344238	125	9.7736084	480	0.2263916	0	18
	30	9.7081386	355	9.9343863	125	9.7737523	479	0.2262477	30	
43	0	9.7082450	354	9.9343488	125	9.7738961	480	0.2261039	0	17
	30	9.7083512	355	9.9343113	125	9.7740400	479	0.2259600	30	
44	0	9.7084575	354	9.9342737	125	9.7741838	479	0.2258162	0	16
	30	9.7085637	354	9.9342362	126	9.7743276	479	0.2256724	30	
45	0	9.7086699	354	9.9341986	125	9.7744713	479	0.2255287	0	15
	30	9.7087761	354	9.9341610	125	9.7746151	479	0.2253849	30	
46	0	9.7088822	354	9.9341234	125	9.7747588	479	0.2252412	0	14
	30	9.7089883	353	9.9340858	125	9.7749025	477	0.2250975	30	
47	0	9.7090943	354	9.9340482	126	9.7750462	478	0.2249538	0	13
	30	9.7092003	354	9.9340105	125	9.7751898	479	0.2248102	30	
48	0	9.7093063	353	9.9339729	126	9.7753334	479	0.2246666	0	12
	30	9.7094123	353	9.9339352	125	9.7754770	479	0.2245230	30	
49	0	9.7095182	353	9.9338976	126	9.7756206	479	0.2243794	0	11
	30	9.7096240	353	9.9338599	126	9.7757642	478	0.2242358	30	
50	0	9.7097299	353	9.9338222	126	9.7759077	479	0.2240923	0	10
	30	9.7098357	352	9.9337845	126	9.7760512	479	0.2239488	30	
51	0	9.7099415	352	9.9337467	125	9.7761947	478	0.2238053	0	9
	30	9.7100472	352	9.9337090	126	9.7763382	478	0.2236618	30	
52	0	9.7101529	352	9.9336713	126	9.7764816	478	0.2235184	0	8
	30	9.7102586	352	9.9336335	126	9.7766251	478	0.2233749	30	
53	0	9.7103642	352	9.9335957	126	9.7767685	478	0.2232315	0	7
	30	9.7104698	352	9.9335579	126	9.7769118	478	0.2230882	30	
54	0	9.7105753	352	9.9335201	126	9.7770552	478	0.2229448	0	6
	30	9.7106809	351	9.9334823	126	9.7771985	478	0.2228015	30	
55	0	9.7107863	352	9.9334445	126	9.7773418	478	0.2226582	0	5
	30	9.7108918	351	9.9334067	126	9.7774851	478	0.2225149	30	
56	0	9.7109972	352	9.9333688	126	9.7776284	478	0.2223716	0	4
	30	9.7111026	351	9.9333310	127	9.7777716	478	0.2222284	30	
57	0	9.7112080	351	9.9332931	126	9.7779149	477	0.2220851	0	3
	30	9.7113133	351	9.9332552	126	9.7780581	477	0.2219419	30	
58	0	9.7114186	350	9.9332173	126	9.7782012	478	0.2217988	0	2
	30	9.7115238	351	9.9331794	126	9.7783444	477	0.2216556	30	
59	0	9.7116290	351	9.9331415	127	9.7784875	477	0.2215125	0	1
	30	9.7117342	350	9.9331035	126	9.7786307	477	0.2213693	30	
60	0	9.7118393		9.9330656		9.7787737		0.2212263	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

59 deg.



31 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
0	o	9.7118393	351	9.9330656	127	9.7787737	477	0.2212263	o	60
	30	9.7119444	351	9.9330276	126	9.7789168	477	0.2210832	30	
1	o	9.7120495	350	9.9329897	127	9.7790599	476	0.2209401	o	59
	30	9.7121546	350	9.9329517	127	9.7792029	476	0.2207971	30	
2	o	9.7122596	350	9.9329137	127	9.7793459	476	0.2206541	o	58
	30	9.7123645	350	9.9328757	127	9.7794889	476	0.2205111	30	
3	o	9.7124695	349	9.9328376	126	9.7796318	477	0.2203682	o	57
	30	9.7125744	349	9.9327996	127	9.7797748	476	0.2202252	30	
4	o	9.7126792	350	9.9327616	127	9.7799177	476	0.2200823	o	56
	30	9.7127841	349	9.9327235	127	9.7800606	476	0.2199394	30	
5	o	9.7128889	349	9.9326854	127	9.7802034	476	0.2197966	o	55
	30	9.7129936	349	9.9326473	127	9.7803463	476	0.2196537	30	
6	o	9.7130983	350	9.9326092	127	9.7804891	476	0.2195109	o	54
	30	9.7132030	349	9.9325711	127	9.7806319	476	0.2193681	30	
7	o	9.7133077	349	9.9325330	127	9.7807747	476	0.2192253	o	53
	30	9.7134123	349	9.9324949	127	9.7809174	476	0.2190826	30	
8	o	9.7135169	349	9.9324567	127	9.7810602	476	0.2189398	o	52
	30	9.7136215	348	9.9324186	127	9.7812029	476	0.2187971	30	
9	o	9.7137260	348	9.9323804	127	9.7813455	476	0.2186544	o	51
	30	9.7138305	348	9.9323422	127	9.7814883	475	0.2185117	30	
10	o	9.7139349	348	9.9323040	127	9.7816309	476	0.2183691	o	50
	30	9.7140394	348	9.9322658	127	9.7817735	475	0.2182265	30	
11	o	9.7141437	348	9.9322276	128	9.7819162	475	0.2180838	o	49
	30	9.7142481	348	9.9321893	127	9.7820587	476	0.2179413	30	
12	o	9.7143524	348	9.9321511	128	9.7822013	475	0.2177987	o	48
	30	9.7144567	347	9.9321128	127	9.7823438	476	0.2176562	30	
13	o	9.7145609	348	9.9320745	128	9.7824864	475	0.2175136	o	47
	30	9.7146651	348	9.9320363	128	9.7826289	475	0.2173711	30	
14	o	9.7147693	347	9.9319980	128	9.7827713	475	0.2172287	o	46
	30	9.7148735	347	9.9319597	128	9.7829138	475	0.2170862	30	
15	o	9.7149776	347	9.9319213	127	9.7830562	475	0.2169438	o	45
	30	9.7150817	346	9.9318830	128	9.7831986	475	0.2168014	30	
16	o	9.7151857	347	9.9318447	128	9.7833410	475	0.2166590	o	44
	30	9.7152897	347	9.9318063	128	9.7834834	475	0.2165166	30	
17	o	9.7153937	346	9.9317679	128	9.7836258	474	0.2163742	o	43
	30	9.7154976	347	9.9317295	128	9.7837681	474	0.2162319	30	
18	o	9.7156015	347	9.9316911	128	9.7839104	474	0.2160896	o	42
	30	9.7157054	346	9.9316527	128	9.7840527	474	0.2159473	30	
19	o	9.7158092	346	9.9316143	128	9.7841949	474	0.2158051	o	41
	30	9.7159130	346	9.9315759	128	9.7843372	474	0.2156628	30	
20	o	9.7160168	346	9.9315374	128	9.7844794	474	0.2155206	o	40
	30	9.7161205	346	9.9314990	129	9.7846216	474	0.2153784	30	
21	o	9.7162243	345	9.9314605	128	9.7847638	474	0.2152362	o	39
	30	9.7163279	346	9.9314220	128	9.7849059	474	0.2150941	30	
22	o	9.7164316	345	9.9313835	128	9.7850481	473	0.2149519	o	38
	30	9.7165352	345	9.9313450	129	9.7851902	473	0.2148098	30	
23	o	9.7166387	345	9.9313065	129	9.7853323	473	0.2146677	o	37
	30	9.7167423	345	9.9312679	128	9.7854743	474	0.2145257	30	
24	o	9.7168458	344	9.9312294	129	9.7856164	473	0.2143836	o	36
	30	9.7169492	345	9.9311908	128	9.7857584	473	0.2142416	30	
25	o	9.7170526	345	9.9311522	128	9.7859004	473	0.2140996	o	35
	30	9.7171560	345	9.9311136	128	9.7860424	473	0.2139576	30	
26	o	9.7172594	345	9.9310750	128	9.7861844	473	0.2138156	o	34
	30	9.7173627	345	9.9310364	128	9.7863263	473	0.2136737	30	
27	o	9.7174660	345	9.9309978	129	9.7864682	473	0.2135318	o	33
	30	9.7175693	344	9.9309592	129	9.7866101	473	0.2133899	30	
28	o	9.7176725	344	9.9309205	129	9.7867520	473	0.2132480	o	32
	30	9.7177757	344	9.9308819	129	9.7868939	472	0.2131061	30	
29	o	9.7178789	344	9.9308432	129	9.7870357	473	0.2129643	o	31
	30	9.7179820	344	9.9308045	129	9.7871775	473	0.2128225	30	
30	o	9.7180851		9.9307658		9.7873193		0.2126807	o	30
			10''		10''		10''			
/	//	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	//	/

58 deg.

31 deg.

'	"	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	"	'
30	0	9.7180351	344	9.9307658	129	9.7873193	473	0.2126307	0	30
	30	9.7181832	343	9.9307271	129	9.7874611	472	0.2125389	30	
31	0	9.7182912	343	9.9306883	129	9.7876028	473	0.2123972	0	29
	30	9.7183942	343	9.9306496	129	9.7877446	472	0.2122554	30	
32	0	9.7184971	344	9.9306109	130	9.7878863	472	0.2121137	0	28
	30	9.7186001	343	9.9305721	129	9.7880280	472	0.2119720	30	
33	0	9.7187030	342	9.9305333	129	9.7881696	473	0.2118304	0	27
	30	9.7188058	343	9.9304945	129	9.7883113	472	0.2116887	30	
34	0	9.7189086	343	9.9304557	129	9.7884529	472	0.2115471	0	26
	30	9.7190114	343	9.9304169	129	9.7885945	472	0.2114055	30	
35	0	9.7191142	342	9.9303781	130	9.7887361	472	0.2112639	0	25
	30	9.7192169	342	9.9303392	129	9.7888777	472	0.2111223	30	
36	0	9.7193196	342	9.9303004	130	9.7890192	472	0.2109808	0	24
	30	9.7194223	342	9.9302615	129	9.7891607	472	0.2108393	30	
37	0	9.7195249	342	9.9302226	129	9.7893023	471	0.2106977	0	23
	30	9.7196275	342	9.9301837	129	9.7894437	472	0.2105563	30	
38	0	9.7197300	342	9.9301448	129	9.7895852	471	0.2104148	0	22
	30	9.7198326	341	9.9301059	130	9.7897266	472	0.2102734	30	
39	0	9.7199350	342	9.9300670	130	9.7898681	471	0.2101319	0	21
	30	9.7200375	342	9.9300281	130	9.7900095	471	0.2099905	30	
40	0	9.7201399	342	9.9299891	130	9.7901508	472	0.2098492	0	20
	30	9.7202423	341	9.9299501	130	9.7902922	471	0.2097078	30	
41	0	9.7203447	341	9.9299112	130	9.7904335	471	0.2095665	0	19
	30	9.7204470	341	9.9298722	130	9.7905748	471	0.2094252	30	
42	0	9.7205493	341	9.9298332	131	9.7907161	471	0.2092839	0	18
	30	9.7206515	341	9.9297941	130	9.7908574	471	0.2091426	30	
43	0	9.7207538	340	9.9297551	130	9.7909987	470	0.2090013	0	17
	30	9.7208560	340	9.9297161	131	9.7911399	471	0.2088601	30	
44	0	9.7209582	341	9.9296770	130	9.7912811	471	0.2087189	0	16
	30	9.7210601	341	9.9296379	130	9.7914223	471	0.2085777	30	
45	0	9.7211623	341	9.9295989	131	9.7915635	470	0.2084365	0	15
	30	9.7212644	340	9.9295598	131	9.7917046	471	0.2082954	30	
46	0	9.7213664	340	9.9295207	131	9.7918458	470	0.2081542	0	14
	30	9.7214684	340	9.9294815	130	9.7919869	470	0.2080131	30	
47	0	9.7215704	339	9.9294424	130	9.7921280	470	0.2078720	0	13
	30	9.7216723	340	9.9294033	131	9.7922690	471	0.2077310	30	
48	0	9.7217742	339	9.9293641	131	9.7924101	470	0.2075899	0	12
	30	9.7218759	340	9.9293249	130	9.7925511	470	0.2074489	30	
49	0	9.7219779	339	9.9292857	130	9.7926921	470	0.2073079	0	11
	30	9.7220797	339	9.9292465	130	9.7928331	470	0.2071669	30	
50	0	9.7221814	339	9.9292073	130	9.7929741	470	0.2070259	0	10
	30	9.7222832	339	9.9291681	131	9.7931150	470	0.2068850	30	
51	0	9.7223848	339	9.9291289	131	9.7932560	469	0.2067440	0	9
	30	9.7224865	339	9.9290896	131	9.7933969	469	0.2066031	30	
52	0	9.7225881	339	9.9290504	131	9.7935378	469	0.2064622	0	8
	30	9.7226897	339	9.9290111	131	9.7936786	470	0.2063214	30	
53	0	9.7227913	338	9.9289718	131	9.7938195	469	0.2061805	0	7
	30	9.7228928	339	9.9289325	131	9.7939603	469	0.2060397	30	
54	0	9.7229943	338	9.9288932	131	9.7941011	469	0.2058989	0	6
	30	9.7230958	338	9.9288539	131	9.7942419	469	0.2057581	30	
55	0	9.7231972	338	9.9288145	131	9.7943827	469	0.2056173	0	5
	30	9.7232986	338	9.9287752	131	9.7945234	469	0.2054766	30	
56	0	9.7234000	338	9.9287358	131	9.7946641	469	0.2053359	0	4
	30	9.7235013	338	9.9286965	132	9.7948048	469	0.2051952	30	
57	0	9.7236026	338	9.9286571	132	9.7949455	469	0.2050545	0	3
	30	9.7237039	337	9.9286177	132	9.7950862	469	0.2049138	30	
58	0	9.7238051	337	9.9285783	132	9.7952268	468	0.2047732	0	2
	30	9.7239063	337	9.9285388	131	9.7953675	468	0.2046325	30	
59	0	9.7240075	337	9.9284994	132	9.7955081	468	0.2044919	0	1
	30	9.7241086	337	9.9284599	131	9.7956487	468	0.2043513	30	
60	0	9.7242097		9.9284205		9.7957892		0.2042108	0	0
'	"	l. cosin.	10''	l. sin.	10''	l. cotan.	10''	l. tang.	"	'

58 deg.

32 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
0	o	9.7242097	337	9.9284205	132	9.7957892	469	0.2042108	o	60
30	o	9.7243108	337	9.9283310	132	9.7959298	468	0.2040702	30	
1	o	9.7244118	337	9.9283415	131	9.7960703	468	0.2039297	o	59
30	o	9.7245128	337	9.9283020	132	9.7962108	468	0.2037892	30	
2	o	9.7246138	336	9.9282625	132	9.7963513	468	0.2036487	o	58
30	o	9.7247147	337	9.9282230	132	9.7964918	468	0.2035082	30	
3	o	9.7248156	337	9.9281834	132	9.7966322	468	0.2033678	o	57
30	o	9.7249165	336	9.9281439	132	9.7967726	468	0.2032274	30	
4	o	9.7250174	336	9.9281043	132	9.7969130	468	0.2030870	o	56
30	o	9.7251182	336	9.9280647	132	9.7970534	468	0.2029466	30	
5	o	9.7252189	336	9.9280251	132	9.7971938	468	0.2028062	o	55
30	o	9.7253197	336	9.9279855	132	9.7973341	468	0.2026659	30	
6	o	9.7254204	336	9.9279459	132	9.7974745	467	0.2025255	o	54
30	o	9.7255211	335	9.9279063	132	9.7976148	467	0.2023852	30	
7	o	9.7256217	336	9.9278666	132	9.7977551	467	0.2022449	o	53
30	o	9.7257223	336	9.9278270	132	9.7978953	468	0.2021047	30	
8	o	9.7258229	335	9.9277873	132	9.7980356	467	0.2019644	o	52
30	o	9.7259235	335	9.9277476	132	9.7981758	468	0.2018242	30	
9	o	9.7260240	335	9.9277079	132	9.7983160	468	0.2016840	o	51
30	o	9.7261245	334	9.9276682	132	9.7984562	467	0.2015438	30	
10	o	9.7262249	335	9.9276285	132	9.7985964	467	0.2014036	o	50
30	o	9.7263253	335	9.9275888	133	9.7987365	467	0.2012635	30	
11	o	9.7264257	335	9.9275490	132	9.7988767	467	0.2011233	o	49
30	o	9.7265261	334	9.9275093	133	9.7990168	467	0.2009832	30	
12	o	9.7266264	334	9.9274695	132	9.7991569	467	0.2008431	o	48
30	o	9.7267267	334	9.9274297	132	9.7992969	467	0.2007031	30	
13	o	9.7268269	334	9.9273899	132	9.7994370	467	0.2005630	o	47
30	o	9.7269272	334	9.9273501	132	9.7995770	467	0.2004230	30	
14	o	9.7270273	334	9.9273103	133	9.7997170	467	0.2002830	o	46
30	o	9.7271275	334	9.9272705	133	9.7998570	467	0.2001430	30	
15	o	9.7272276	334	9.9272306	133	9.7999970	467	0.2000030	o	45
30	o	9.7273277	334	9.9271908	133	9.8001370	466	0.1998630	30	
16	o	9.7274278	333	9.9271509	133	9.8002769	467	0.1997231	o	44
30	o	9.7275278	333	9.9271110	133	9.8004168	467	0.1995832	30	
17	o	9.7276278	333	9.9270711	133	9.8005567	467	0.1994433	o	43
30	o	9.7277278	333	9.9270312	133	9.8006966	466	0.1993034	30	
18	o	9.7278277	333	9.9269913	134	9.8008365	466	0.1991635	o	42
30	o	9.7279276	333	9.9269513	133	9.8009763	466	0.1990237	30	
19	o	9.7280275	333	9.9269114	133	9.8011161	466	0.1988839	o	41
30	o	9.7281273	333	9.9268714	133	9.8012559	466	0.1987441	30	
20	o	9.7282271	333	9.9268314	133	9.8013957	466	0.1986043	o	40
30	o	9.7283269	333	9.9267914	133	9.8015355	466	0.1984645	30	
21	o	9.7284267	332	9.9267514	133	9.8016752	466	0.1983248	o	39
30	o	9.7285264	332	9.9267114	133	9.8018149	466	0.1981851	30	
22	o	9.7286260	332	9.9266714	134	9.8019546	466	0.1980454	o	38
30	o	9.7287257	332	9.9266314	134	9.8020943	466	0.1979057	30	
23	o	9.7288253	332	9.9265913	134	9.8022340	465	0.1977660	o	37
30	o	9.7289249	332	9.9265512	133	9.8023736	466	0.1976264	30	
24	o	9.7290244	332	9.9265112	134	9.8025133	465	0.1974867	o	36
30	o	9.7291239	332	9.9264711	134	9.8026529	465	0.1973471	30	
25	o	9.7292234	332	9.9264310	134	9.8027925	465	0.1972075	o	35
30	o	9.7293229	331	9.9263908	133	9.8029320	466	0.1970680	30	
26	o	9.7294223	331	9.9263507	134	9.8030716	465	0.1969284	o	34
30	o	9.7295217	331	9.9263106	134	9.8032111	465	0.1967889	30	
27	o	9.7296211	331	9.9262704	134	9.8033506	465	0.1966494	o	33
30	o	9.7297204	331	9.9262302	134	9.8034901	465	0.1965099	30	
28	o	9.7298197	331	9.9261901	134	9.8036296	465	0.1963704	o	32
30	o	9.7299189	331	9.9261499	134	9.8037691	465	0.1962309	30	
29	o	9.7300182	330	9.9261096	134	9.8039085	465	0.1960915	o	31
30	o	9.7301174	330	9.9260694	134	9.8040479	465	0.1959521	30	
30	o	9.7302165		9.9260292		9.8041873		0.1958127	o	30
/	//	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	//	/

57 deg.

32 deg.

°	'	l. sin.	dif.	l. cosin.	dif.	l. tang.	dif.	l. cotan.	''	'
		10''		10''		10''				
30	0	9.7302165	331	9.9250292	134	9.8041873	465	0.1958127	0	30
	30	9.7303157	330	9.9259889	134	9.8043257	465	0.1956733	0	30
31	0	9.7304148	330	9.9259487	134	9.8044661	464	0.1955339	0	29
	30	9.7305138	330	9.9259084	134	9.8046054	465	0.1953946	0	30
32	0	9.7306129	330	9.9258681	134	9.8047447	465	0.1952553	0	28
	30	9.7307119	330	9.9258278	134	9.8048841	464	0.1951159	0	30
33	0	9.7308109	329	9.9257875	134	9.8050233	465	0.1949767	0	27
	30	9.7309098	330	9.9257472	125	9.8051626	464	0.1948374	0	30
34	0	9.7310087	330	9.9257069	135	9.8053019	464	0.1946981	0	26
	30	9.7311076	329	9.9256665	135	9.8054411	464	0.1945589	0	30
35	0	9.7312064	330	9.9256261	134	9.8055803	464	0.1944197	0	25
	30	9.7313053	329	9.9255858	135	9.8057195	464	0.1942805	0	30
36	0	9.7314040	330	9.9255454	135	9.8058587	464	0.1941413	0	24
	30	9.7315028	329	9.9255050	135	9.8059978	464	0.1940022	0	30
37	0	9.7316015	329	9.9254646	135	9.8061370	463	0.1938630	0	23
	30	9.7317002	329	9.9254241	135	9.8062761	463	0.1937239	0	30
38	0	9.7317989	328	9.9253837	135	9.8064152	463	0.1935848	0	22
	30	9.7318975	329	9.9253432	135	9.8065543	463	0.1934457	0	30
39	0	9.7319961	328	9.9253028	135	9.8066933	464	0.1933067	0	21
	30	9.7320946	329	9.9252623	135	9.8068324	463	0.1931676	0	30
40	0	9.7321932	328	9.9252218	135	9.8069714	463	0.1930286	0	20
	30	9.7322917	328	9.9251813	135	9.8071104	463	0.1928896	0	30
41	0	9.7323902	328	9.9251408	135	9.8072494	463	0.1927506	0	19
	30	9.7324886	328	9.9251002	135	9.8073884	463	0.1926116	0	30
42	0	9.7325870	328	9.9250597	135	9.8075273	463	0.1924727	0	18
	30	9.7326854	328	9.9250191	135	9.8076662	463	0.1923338	0	30
43	0	9.7327837	328	9.9249786	136	9.8078052	463	0.1921948	0	17
	30	9.7328820	328	9.9249380	136	9.8079441	462	0.1920559	0	30
44	0	9.7329803	328	9.9248974	136	9.8080832	463	0.1919171	0	16
	30	9.7330786	327	9.9248568	136	9.8082218	463	0.1917782	0	30
45	0	9.7331768	327	9.9248161	135	9.8083606	463	0.1916394	0	15
	30	9.7332750	327	9.9247755	135	9.8084995	462	0.1915005	0	30
46	0	9.7333731	327	9.9247349	136	9.8086383	462	0.1913617	0	14
	30	9.7334712	327	9.9246942	136	9.8087770	463	0.1912230	0	30
47	0	9.7335693	327	9.9246535	135	9.8089158	463	0.1910842	0	13
	30	9.7336674	327	9.9246128	135	9.8090546	462	0.1909454	0	30
48	0	9.7337654	327	9.9245721	135	9.8091933	462	0.1908067	0	12
	30	9.7338634	327	9.9245314	136	9.8093320	462	0.1906680	0	30
49	0	9.7339614	326	9.9244907	136	9.8094707	462	0.1905293	0	11
	30	9.7340593	327	9.9244500	136	9.8096094	462	0.1903906	0	30
50	0	9.7341572	327	9.9244092	136	9.8097480	462	0.1902520	0	10
	30	9.7342551	326	9.9243684	136	9.8098867	462	0.1901133	0	30
51	0	9.7343529	326	9.9243277	136	9.8100253	462	0.1899747	0	9
	30	9.7344507	326	9.9242869	136	9.8101639	462	0.1898361	0	30
52	0	9.7345485	326	9.9242461	136	9.8103025	462	0.1896975	0	8
	30	9.7346463	326	9.9242052	136	9.8104410	462	0.1895590	0	30
53	0	9.7347440	326	9.9241644	136	9.8105796	462	0.1894204	0	7
	30	9.7348417	325	9.9241236	137	9.8107181	462	0.1892819	0	30
54	0	9.7349393	326	9.9240827	136	9.8108566	462	0.1891434	0	6
	30	9.7350370	325	9.9240418	136	9.8109951	462	0.1890049	0	30
55	0	9.7351345	326	9.9240010	137	9.8111336	462	0.1888664	0	5
	30	9.7352321	325	9.9239601	137	9.8112721	461	0.1887279	0	30
56	0	9.7353296	325	9.9239191	136	9.8114105	461	0.1885895	0	4
	30	9.7354271	325	9.9238782	136	9.8115489	462	0.1884511	0	30
57	0	9.7355246	325	9.9238373	137	9.8116873	461	0.1883127	0	3
	30	9.7356220	325	9.9237963	136	9.8118257	461	0.1881743	0	30
58	0	9.7357195	324	9.9237554	137	9.8119641	461	0.1880359	0	2
	30	9.7358168	325	9.9237144	137	9.8121024	461	0.1878976	0	30
59	0	9.7359142	324	9.9236734	136	9.8122408	461	0.1877592	0	1
	30	9.7360115	324	9.9236324	137	9.8123791	461	0.1876209	0	30
60	0	9.7361088		9.9235914		9.8125174		0.1874826	0	0
		10''		10''		10''				
°	''	l. cosin.	dif.	l. sin.	dif.	l. cotan.	dif.	l. tang.	''	°

57 deg.



33 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	0	9.7361088		9.9235914	137	9.8125174	461	0.1874826	0	60
	30	9.7362060	324	9.9235504	137	9.8126556	461	0.1873444	30	
1	0	9.7363032	324	9.9235093	136	9.8127939	461	0.1872061	0	59
	30	9.7364004	324	9.9234683	137	9.8129321	461	0.1870679	30	
2	0	9.7364976	324	9.9234272	137	9.8130704	460	0.1869296	0	58
	30	9.7365947	324	9.9233861	137	9.8132086	460	0.1867914	30	
3	0	9.7366918	324	9.9233450	137	9.8133468	460	0.1866532	0	57
	30	9.7367889	323	9.9233039	137	9.8134849	461	0.1865151	30	
4	0	9.7368859	323	9.9232628	137	9.8136231	460	0.1863769	0	56
	30	9.7369829	323	9.9232217	137	9.8137612	461	0.1862388	30	
5	0	9.7370799	323	9.9231805	137	9.8138993	461	0.1861007	0	55
	30	9.7371768	323	9.9231394	137	9.8140374	461	0.1859626	30	
6	0	9.7372737	323	9.9230982	137	9.8141755	460	0.1858245	0	54
	30	9.7373706	323	9.9230570	137	9.8143136	460	0.1856864	30	
7	0	9.7374675	322	9.9230158	137	9.8144516	460	0.1855484	0	53
	30	9.7375643	323	9.9229746	137	9.8145897	460	0.1854103	30	
8	0	9.7376611	322	9.9229334	137	9.8147277	460	0.1852723	0	52
	30	9.7377578	322	9.9228922	138	9.8148657	460	0.1851343	30	
9	0	9.7378546	322	9.9228509	137	9.8150036	460	0.1849964	0	51
	30	9.7379513	322	9.9228097	138	9.8151416	460	0.1848584	30	
10	0	9.7380479	322	9.9227684	138	9.8152795	460	0.1847205	0	50
	30	9.7381446	322	9.9227271	138	9.8154175	459	0.1845825	30	
11	0	9.7382412	322	9.9226858	138	9.8155554	459	0.1844446	0	49
	30	9.7383377	322	9.9226445	138	9.8156933	459	0.1843067	30	
12	0	9.7384343	321	9.9226032	138	9.8158311	459	0.1841689	0	48
	30	9.7385308	321	9.9225618	138	9.8159690	459	0.1840310	30	
13	0	9.7386273	321	9.9225205	138	9.8161068	460	0.1838932	0	47
	30	9.7387237	322	9.9224791	138	9.8162445	460	0.1837554	30	
14	0	9.7388201	322	9.9224377	138	9.8163824	460	0.1836176	0	46
	30	9.7389165	321	9.9223963	138	9.8165202	459	0.1834798	30	
15	0	9.7390129	321	9.9223549	138	9.8166580	459	0.1833420	0	45
	30	9.7391092	321	9.9223135	138	9.8167957	459	0.1832043	30	
16	0	9.7392055	321	9.9222721	139	9.8169335	459	0.1830665	0	44
	30	9.7393018	321	9.9222306	138	9.8170712	459	0.1829288	30	
17	0	9.7393980	321	9.9221891	138	9.8172089	459	0.1827911	0	43
	30	9.7394942	321	9.9221477	138	9.8173465	459	0.1826535	30	
18	0	9.7395904	320	9.9221062	138	9.8174842	459	0.1825158	0	42
	30	9.7396865	320	9.9220647	138	9.8176218	459	0.1823782	30	
19	0	9.7397827	320	9.9220232	139	9.8177595	458	0.1822405	0	41
	30	9.7398787	321	9.9219817	139	9.8178971	458	0.1821029	30	
20	0	9.7399748	320	9.9219401	138	9.8180347	458	0.1819653	0	40
	30	9.7400708	320	9.9218985	139	9.8181722	459	0.1818273	30	
21	0	9.7401663	320	9.9218570	139	9.8183097	459	0.1816892	0	39
	30	9.7402623	320	9.9218154	138	9.8184473	459	0.1815527	30	
22	0	9.7403587	320	9.9217738	138	9.8185849	458	0.1814151	0	38
	30	9.7404546	320	9.9217322	138	9.8187224	458	0.1812776	30	
23	0	9.7405505	319	9.9216906	139	9.8188599	458	0.1811401	0	37
	30	9.7406463	320	9.9216490	139	9.8189973	459	0.1810027	30	
24	0	9.7407421	320	9.9216073	138	9.8191348	458	0.1808652	0	36
	30	9.7408379	319	9.9215657	139	9.8192722	458	0.1807278	30	
25	0	9.7409337	319	9.9215240	139	9.8194096	458	0.1805904	0	35
	30	9.7410294	319	9.9214823	139	9.8195470	458	0.1804530	30	
26	0	9.7411251	319	9.9214406	139	9.8196844	458	0.1803156	0	34
	30	9.7412207	319	9.9213989	139	9.8198218	458	0.1801782	30	
27	0	9.7413164	318	9.9213572	139	9.8199592	457	0.1800408	0	33
	30	9.7414120	318	9.9213155	139	9.8200965	458	0.1799035	30	
28	0	9.7415075	319	9.9212737	139	9.8202338	458	0.1797662	0	32
	30	9.7416031	318	9.9212320	140	9.8203711	458	0.1796289	30	
29	0	9.7416986	318	9.9211902	139	9.8205084	457	0.1794916	0	31
	30	9.7417940	319	9.9211484	139	9.8206457	457	0.1793543	30	
30	0	9.7418895		9.9211065		9.8207829		0.1792171	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

56 deg.

33 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.7418325	318	9.9211055	139	9.8207829	458	0.1792171	0	30
	30	9.7419349	318	9.9210648	140	9.8207201	458	0.1790799	30	
31	0	9.7420803	318	9.9210229	139	9.8210574	457	0.1789426	0	29
	30	9.7421757	317	9.9209811	139	9.8211946	457	0.1788054	30	
32	0	9.7422710	318	9.9209393	140	9.8213317	458	0.1786683	0	28
	30	9.7423663	317	9.9208974	140	9.8214689	457	0.1785311	30	
33	0	9.7424616	317	9.9208555	140	9.8216060	458	0.1783940	0	27
	30	9.7425568	317	9.9208136	140	9.8217432	457	0.1782568	30	
34	0	9.7426520	317	9.9207717	140	9.8218803	457	0.1781197	0	26
	30	9.7427472	317	9.9207298	140	9.8220174	457	0.1779826	30	
35	0	9.7428423	317	9.9206878	139	9.8221545	457	0.1778455	0	25
	30	9.7429374	317	9.9206459	140	9.8222915	457	0.1777085	30	
36	0	9.7430325	317	9.9206039	140	9.8224286	457	0.1775714	0	24
	30	9.7431276	317	9.9205620	140	9.8225656	457	0.1774344	30	
37	0	9.7432226	317	9.9205200	140	9.8227026	457	0.1772974	0	23
	30	9.7433176	317	9.9204780	140	9.8228396	457	0.1771604	30	
38	0	9.7434126	316	9.9204360	140	9.8229766	457	0.1770234	0	22
	30	9.7435075	316	9.9203939	140	9.8231136	456	0.1768864	30	
39	0	9.7436024	316	9.9203519	140	9.8232505	457	0.1767495	0	21
	30	9.7436973	316	9.9203098	140	9.8233874	457	0.1766126	30	
40	0	9.7437921	316	9.9202678	140	9.8235244	456	0.1764756	0	20
	30	9.7438869	316	9.9202257	140	9.8236613	456	0.1763387	30	
41	0	9.7439817	316	9.9201836	140	9.8237981	457	0.1762019	0	19
	30	9.7440765	316	9.9201415	140	9.8239350	456	0.1760650	30	
42	0	9.7441712	316	9.9200994	141	9.8240719	456	0.1759281	0	18
	30	9.7442659	316	9.9200572	140	9.8242087	456	0.1757913	30	
43	0	9.7443606	315	9.9200151	141	9.8243455	456	0.1756545	0	17
	30	9.7444552	316	9.9199729	140	9.8244823	456	0.1755177	30	
44	0	9.7445498	316	9.9199308	141	9.8246191	456	0.1753809	0	16
	30	9.7446444	315	9.9198886	141	9.8247558	456	0.1752442	30	
45	0	9.7447390	315	9.9198464	141	9.8248926	456	0.1751074	0	15
	30	9.7448335	315	9.9198042	141	9.8250293	456	0.1749707	30	
46	0	9.7449280	315	9.9197619	140	9.8251660	456	0.1748340	0	14
	30	9.7450224	315	9.9197197	141	9.8253027	456	0.1746973	30	
47	0	9.7451169	314	9.9196775	141	9.8254394	456	0.1745606	0	13
	30	9.7452113	314	9.9196352	141	9.8255761	455	0.1744239	30	
48	0	9.7453056	315	9.9195929	141	9.8257127	456	0.1742873	0	12
	30	9.7454000	314	9.9195506	141	9.8258494	455	0.1741506	30	
49	0	9.7454943	314	9.9195083	141	9.8259860	455	0.1740140	0	11
	30	9.7455886	314	9.9194660	141	9.8261226	455	0.1738774	30	
50	0	9.7456828	314	9.9194237	142	9.8262592	455	0.1737408	0	10
	30	9.7457770	314	9.9193813	141	9.8263957	456	0.1736043	30	
51	0	9.7458712	314	9.9193390	142	9.8265323	455	0.1734677	0	9
	30	9.7459654	314	9.9192966	141	9.8266688	455	0.1733312	30	
52	0	9.7460595	314	9.9192542	141	9.8268053	455	0.1731947	0	8
	30	9.7461536	314	9.9192118	141	9.8269418	455	0.1730582	30	
53	0	9.7462477	314	9.9191694	142	9.8270783	455	0.1729217	0	7
	30	9.7463418	313	9.9191270	142	9.8272148	455	0.1727852	30	
54	0	9.7464358	313	9.9190845	141	9.8273513	454	0.1726487	0	6
	30	9.7465298	313	9.9190421	142	9.8274877	455	0.1725123	30	
55	0	9.7466237	313	9.9189996	142	9.8276241	455	0.1723759	0	5
	30	9.7467176	313	9.9189571	141	9.8277605	455	0.1722395	30	
56	0	9.7468115	313	9.9189146	141	9.8278969	455	0.1721031	0	4
	30	9.7469054	313	9.9188721	141	9.8280333	454	0.1719667	30	
57	0	9.7469992	313	9.9188296	142	9.8281696	455	0.1718304	0	3
	30	9.7470930	313	9.9187871	142	9.8283060	454	0.1716940	30	
58	0	9.7471868	313	9.9187445	142	9.8284423	454	0.1715577	0	2
	30	9.7472806	312	9.9187020	142	9.8285786	454	0.1714214	30	
59	0	9.7473743	312	9.9186594	142	9.8287149	454	0.1712851	0	1
	30	9.7474680	312	9.9186168	142	9.8288512	454	0.1711488	30	
60	0	9.7475617	10''	9.9185742	10''	9.8289874	10''	0.1710126	0	0
'	''	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	''	'

56 deg.

34 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.7475617	312	9.9185742	142	9.8289874	455	0.1710126	0	60
	30	9.7476533	312	9.9185316	142	9.8291237	454	0.1708763	30	
1	0	9.7477482	312	9.9184830	142	9.8292599	454	0.1707401	0	59
	30	9.7478425	311	9.9184463	142	9.8293961	454	0.1706039	30	
2	0	9.7479360	312	9.9184037	142	9.8295323	454	0.1704677	0	58
	30	9.7480295	312	9.9183610	142	9.8296685	454	0.1703315	30	
3	0	9.7481230	312	9.9183183	142	9.8298047	453	0.1701953	0	57
	30	9.7482165	311	9.9182756	142	9.8299408	454	0.1700592	30	
4	0	9.7483092	311	9.9182329	142	9.8300769	454	0.1699231	0	56
	30	9.7484033	311	9.9181902	142	9.8302131	453	0.1697869	30	
5	0	9.7484957	311	9.9181475	143	9.8303492	453	0.1696508	0	55
	30	9.7485900	311	9.9181047	142	9.8304853	453	0.1695147	30	
6	0	9.7486833	311	9.9180620	143	9.8306213	454	0.1693787	0	54
	30	9.7487766	311	9.9180192	143	9.8307574	453	0.1692426	30	
7	0	9.7488698	311	9.9179764	142	9.8308934	454	0.1691066	0	53
	30	9.7489631	310	9.9179336	142	9.8310294	454	0.1689706	30	
8	0	9.7490563	311	9.9178908	143	9.8311654	454	0.1688346	0	52
	30	9.7491494	311	9.9178480	143	9.8313014	454	0.1686986	30	
9	0	9.7492425	311	9.9178051	142	9.8314374	453	0.1685626	0	51
	30	9.7493357	310	9.9177623	143	9.8315734	453	0.1684266	30	
10	0	9.7494287	310	9.9177194	143	9.8317093	453	0.1682907	0	50
	30	9.7495218	310	9.9176765	143	9.8318452	453	0.1681548	30	
11	0	9.7496148	310	9.9176336	143	9.8319811	453	0.1680189	0	49
	30	9.7497078	310	9.9175907	143	9.8321170	453	0.1678830	30	
12	0	9.7498007	310	9.9175478	143	9.8322529	453	0.1677471	0	48
	30	9.7498937	309	9.9175049	143	9.8323888	453	0.1676112	30	
13	0	9.7499866	309	9.9174619	143	9.8325246	453	0.1674754	0	47
	30	9.7500794	310	9.9174190	143	9.8326605	452	0.1673395	30	
14	0	9.7501723	309	9.9173760	143	9.8327963	453	0.1672037	0	46
	30	9.7502651	309	9.9173330	143	9.8329321	453	0.1670679	30	
15	0	9.7503579	309	9.9172900	143	9.8330679	452	0.1669321	0	45
	30	9.7504506	310	9.9172470	143	9.8332036	453	0.1667964	30	
16	0	9.7505434	309	9.9172040	144	9.8333394	453	0.1666606	0	44
	30	9.7506361	309	9.9171609	143	9.8334751	453	0.1665249	30	
17	0	9.7507287	309	9.9171179	144	9.8336109	452	0.1663891	0	43
	30	9.7508214	309	9.9170748	144	9.8337466	452	0.1662534	30	
18	0	9.7509140	309	9.9170317	143	9.8338823	452	0.1661177	0	42
	30	9.7510066	308	9.9169886	143	9.8340179	453	0.1659821	30	
19	0	9.7510991	309	9.9169455	144	9.8341536	452	0.1658464	0	41
	30	9.7511917	308	9.9169024	144	9.8342893	452	0.1657107	30	
20	0	9.7512842	308	9.9168593	144	9.8344249	452	0.1655751	0	40
	30	9.7513766	308	9.9168161	144	9.8345605	452	0.1654395	30	
21	0	9.7514691	308	9.9167730	144	9.8346961	452	0.1653039	0	39
	30	9.7515615	308	9.9167298	144	9.8348317	452	0.1651683	30	
22	0	9.7516538	308	9.9166866	144	9.8349673	452	0.1650327	0	38
	30	9.7517462	308	9.9166434	144	9.8351028	452	0.1648972	30	
23	0	9.7518385	308	9.9166002	144	9.8352384	451	0.1647616	0	37
	30	9.7519308	308	9.9165569	144	9.8353739	452	0.1646261	30	
24	0	9.7520231	307	9.9165137	144	9.8355094	452	0.1644906	0	36
	30	9.7521153	308	9.9164704	144	9.8356449	451	0.1643551	30	
25	0	9.7522075	308	9.9164272	145	9.8357804	451	0.1642196	0	35
	30	9.7522997	307	9.9163839	145	9.8359158	452	0.1640842	30	
25	0	9.7523919	307	9.9163406	145	9.8360513	451	0.1639487	0	34
	30	9.7524840	307	9.9162973	145	9.8361867	451	0.1638133	30	
27	0	9.7525761	307	9.9162539	144	9.8363221	452	0.1636779	0	33
	30	9.7526683	307	9.9162106	144	9.8364575	452	0.1635425	30	
28	0	9.7527602	306	9.9161673	145	9.8365929	451	0.1634071	0	32
	30	9.7528522	306	9.9161239	145	9.8367283	451	0.1632717	30	
29	0	9.7529442	306	9.9160805	144	9.8368636	452	0.1631364	0	31
	30	9.7530361	306	9.9160371	144	9.8369990	451	0.1630010	30	
30	0	9.7531280		9.9159937		9.8371343		0.1628657	0	30
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

55 deg.  
22\*

## 34 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.7531280	307	9.9159937	145	9.8371343	451	0.1628657	0	30
30	30	9.7532199	306	9.9159503	145	9.8372696	451	0.1627304	30	30
31	0	9.7533118	306	9.9159069	145	9.8374049	451	0.1625951	0	29
31	30	9.7534036	306	9.9158634	145	9.8375402	451	0.1624598	30	29
32	0	9.7534954	306	9.9158200	145	9.8376755	451	0.1623245	0	28
32	30	9.7535872	306	9.9157765	145	9.8378107	451	0.1621893	30	28
33	0	9.7536790	305	9.9157330	145	9.8379460	450	0.1620540	0	27
33	30	9.7537707	305	9.9156895	145	9.8380812	450	0.1619188	30	27
34	0	9.7538624	305	9.9156460	145	9.8382164	450	0.1617836	0	26
34	30	9.7539540	306	9.9156025	146	9.8383516	450	0.1616484	30	26
35	0	9.7540457	305	9.9155589	145	9.8384867	451	0.1615133	0	25
35	30	9.7541373	305	9.9155154	146	9.8386219	451	0.1613781	30	25
36	0	9.7542288	306	9.9154718	145	9.8387571	450	0.1612429	0	24
36	30	9.7543204	305	9.9154282	145	9.8388922	450	0.1611078	30	24
37	0	9.7544119	305	9.9153846	145	9.8390273	450	0.1609727	0	23
37	30	9.7545034	305	9.9153410	145	9.8391624	450	0.1608376	30	23
38	0	9.7545949	305	9.9152974	146	9.8392975	450	0.1607025	0	22
38	30	9.7546863	305	9.9152537	145	9.8394326	450	0.1605674	30	22
39	0	9.7547777	305	9.9152101	146	9.8395676	450	0.1604324	0	21
39	30	9.7548691	304	9.9151664	145	9.8397027	450	0.1602973	30	21
40	0	9.7549604	305	9.9151228	146	9.8398377	450	0.1601623	0	20
40	30	9.7550518	304	9.9150791	146	9.8399727	450	0.1600273	30	20
41	0	9.7551431	304	9.9150354	146	9.8401077	450	0.1598923	0	19
41	30	9.7552343	304	9.9149916	145	9.8402427	450	0.1597573	30	19
42	0	9.7553256	304	9.9149479	146	9.8403776	450	0.1596224	0	18
42	30	9.7554168	304	9.9149042	146	9.8405126	450	0.1594874	30	18
43	0	9.7555080	303	9.9148604	146	9.8406475	450	0.1593525	0	17
43	30	9.7555991	304	9.9148165	146	9.8407825	449	0.1592175	30	17
44	0	9.7556902	304	9.9147729	146	9.8409174	449	0.1590826	0	16
44	30	9.7557813	304	9.9147291	146	9.8410523	449	0.1589477	30	16
45	0	9.7558724	303	9.9146852	146	9.8411871	450	0.1588129	0	15
45	30	9.7559634	304	9.9146414	146	9.8413220	450	0.1586780	30	15
46	0	9.7560544	304	9.9145976	146	9.8414569	449	0.1585431	0	14
46	30	9.7561454	303	9.9145537	146	9.8415917	449	0.1584083	30	14
47	0	9.7562364	303	9.9145099	147	9.8417265	450	0.1582735	0	13
47	30	9.7563273	303	9.9144660	147	9.8418613	450	0.1581387	30	13
48	0	9.7564182	303	9.9144221	147	9.8419961	449	0.1580039	0	12
48	30	9.7565091	302	9.9143782	147	9.8421309	449	0.1578691	30	12
49	0	9.7565999	303	9.9143342	146	9.8422657	449	0.1577343	0	11
49	30	9.7566907	303	9.9142903	146	9.8424004	449	0.1575996	30	11
50	0	9.7567815	303	9.9142464	147	9.8425351	449	0.1574649	0	10
50	30	9.7568723	302	9.9142024	147	9.8426699	449	0.1573301	30	10
51	0	9.7569630	302	9.9141584	146	9.8428046	449	0.1571954	0	9
51	30	9.7570537	302	9.9141144	146	9.8429393	448	0.1570607	30	9
52	0	9.7571444	302	9.9140704	146	9.8430739	449	0.1569261	0	8
52	30	9.7572350	302	9.9140264	147	9.8432086	449	0.1567914	30	8
53	0	9.7573256	302	9.9139824	147	9.8433432	449	0.1566568	0	7
53	30	9.7574162	302	9.9139383	146	9.8434779	448	0.1565221	30	7
54	0	9.7575068	302	9.9138943	147	9.8436125	449	0.1563875	0	6
54	30	9.7575973	302	9.9138502	147	9.8437471	449	0.1562529	30	6
55	0	9.7576878	302	9.9138061	147	9.8438817	448	0.1561183	0	5
55	30	9.7577783	301	9.9137620	147	9.8440163	448	0.1559837	30	5
56	0	9.7578687	302	9.9137179	147	9.8441508	449	0.1558492	0	4
56	30	9.7579591	302	9.9136738	147	9.8442854	448	0.1557146	30	4
57	0	9.7580495	302	9.9136296	147	9.8444199	448	0.1555801	0	3
57	30	9.7581399	301	9.9135855	147	9.8445544	448	0.1554456	30	3
58	0	9.7582302	301	9.9135413	147	9.8446889	448	0.1553111	0	2
58	30	9.7583205	301	9.9134971	147	9.8448234	448	0.1551766	30	2
59	0	9.7584108	301	9.9134530	148	9.8449579	448	0.1550421	0	1
59	30	9.7585011	301	9.9134087	147	9.8450923	449	0.1549077	30	1
60	0	9.7585913	10"	9.9133645	10"	9.8452268	10"	0.1547732	0	0
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

## 55 deg.



35 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	"	'
0	0	9.7585913	301	9.9133645	147	9.8452268	448	0.1547732	0	60
	30	9.7586815	301	9.9133203	148	9.8453612	448	0.1546383	30	
1	0	9.7587717	300	9.9132760	147	9.8454956	448	0.1545044	0	59
	30	9.7588618	300	9.9132318	148	9.8456300	448	0.1543700	30	
2	0	9.7589519	300	9.9131875	148	9.8457644	448	0.1542356	0	58
	30	9.7590420	300	9.9131432	148	9.8458988	448	0.1541012	30	
3	0	9.7591321	300	9.9130989	148	9.8460332	447	0.1539668	0	57
	30	9.7592221	300	9.9130546	148	9.8461675	448	0.1538325	30	
4	0	9.7593121	300	9.9130102	147	9.8463018	448	0.1536982	0	56
	30	9.7594021	299	9.9129659	148	9.8464362	447	0.1535638	30	
5	0	9.7594920	300	9.9129215	147	9.8465705	447	0.1534295	0	55
	30	9.7595819	300	9.9128772	148	9.8467048	447	0.1532952	30	
6	0	9.7596718	300	9.9128328	148	9.8468392	448	0.1531610	0	54
	30	9.7597617	299	9.9127884	148	9.8469735	447	0.1530267	30	
7	0	9.7598515	299	9.9127440	148	9.8471078	448	0.1528925	0	53
	30	9.7599413	299	9.9126995	148	9.8472421	447	0.1527582	30	
8	0	9.7600311	299	9.9126551	148	9.8473765	447	0.1526240	0	52
	30	9.7601208	300	9.9126105	148	9.8475108	447	0.1524898	30	
9	0	9.7602106	299	9.9125658	148	9.8476451	447	0.1523556	0	51
	30	9.7603003	299	9.9125217	148	9.8477795	447	0.1522214	30	
10	0	9.7603899	299	9.9124772	148	9.8479137	447	0.1520873	0	50
	30	9.7604796	298	9.9124327	149	9.8480480	447	0.1519531	30	
11	0	9.7605692	298	9.9123882	149	9.8481823	447	0.1518190	0	49
	30	9.7606588	298	9.9123436	148	9.8483165	447	0.1516849	30	
12	0	9.7607483	299	9.9122991	149	9.8484508	447	0.1515508	0	48
	30	9.7608378	299	9.9122545	148	9.8485851	447	0.1514167	30	
13	0	9.7609274	298	9.9122099	148	9.8487194	447	0.1512826	0	47
	30	9.7610168	298	9.9121653	148	9.8488537	447	0.1511485	30	
14	0	9.7611063	298	9.9121207	148	9.8489880	447	0.1510144	0	46
	30	9.7611957	298	9.9120761	149	9.8491223	447	0.1508803	30	
15	0	9.7612851	298	9.9120315	149	9.8492566	447	0.1507462	0	45
	30	9.7613744	298	9.9119868	149	9.8493909	447	0.1506121	30	
16	0	9.7614638	298	9.9119422	149	9.8495252	447	0.1504780	0	44
	30	9.7615531	298	9.9118975	149	9.8496595	447	0.1503439	30	
17	0	9.7616424	297	9.9118528	149	9.8497938	446	0.1502098	0	43
	30	9.7617316	298	9.9118081	149	9.8499281	447	0.1500757	30	
18	0	9.7618208	298	9.9117634	149	9.8500624	446	0.1499416	0	42
	30	9.7619100	298	9.9117187	150	9.8501967	446	0.1498075	30	
19	0	9.7619992	297	9.9116739	149	9.8503310	446	0.1496734	0	41
	30	9.7620884	297	9.9116291	149	9.8504653	446	0.1495393	30	
20	0	9.7621775	297	9.9115844	150	9.8505996	446	0.1494052	0	40
	30	9.7622666	297	9.9115396	149	9.8507339	446	0.1492711	30	
21	0	9.7623556	297	9.9114948	149	9.8508682	447	0.1491370	0	39
	30	9.7624447	296	9.9114500	150	9.8509925	446	0.1490029	30	
22	0	9.7625337	296	9.9114051	149	9.8511268	446	0.1488688	0	38
	30	9.7626226	297	9.9113603	149	9.8512611	446	0.1487347	30	
23	0	9.7627116	296	9.9113155	150	9.8513954	446	0.1486006	0	37
	30	9.7628005	297	9.9112706	150	9.8515297	446	0.1484665	30	
24	0	9.7628894	296	9.9112257	150	9.8516640	446	0.1483324	0	36
	30	9.7629783	296	9.9111808	150	9.8517983	446	0.1481983	30	
25	0	9.7630671	296	9.9111359	150	9.8519326	446	0.1480642	0	35
	30	9.7631559	296	9.9110910	150	9.8520669	445	0.1479301	30	
26	0	9.7632447	296	9.9110460	149	9.8521977	446	0.1477960	0	34
	30	9.7633335	296	9.9110011	150	9.8523320	446	0.1476619	30	
27	0	9.7634222	295	9.9109561	150	9.8524663	446	0.1475278	0	33
	30	9.7635109	296	9.9109111	150	9.8525968	445	0.1473937	30	
28	0	9.7635996	296	9.9108661	150	9.8527273	445	0.1472596	0	32
	30	9.7636883	296	9.9108211	150	9.8528578	446	0.1471255	30	
29	0	9.7637769	295	9.9107761	150	9.8529883	445	0.1469914	0	31
	30	9.7638655	295	9.9107311	150	9.8531188	445	0.1468573	30	
30	0	9.7639540		9.9106860		9.8532493		0.1467232	0	30
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

51 deg.

35 deg.

°	'	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
30	0	9.7639540	296	9.9106860	150	9.8532680	445	0.1467320	0	30
	30	9.7640426	295	9.9106410	151	9.8534016	445	0.1465934	0	30
31	0	9.7641311	295	9.9105959	150	9.8535352	445	0.1464648	0	29
	30	9.7642196	295	9.9105508	150	9.8536688	445	0.1463312	0	30
32	0	9.7643080	295	9.9105057	150	9.8538023	445	0.1461977	0	28
	30	9.7643965	294	9.9104606	151	9.8539359	445	0.1460641	0	30
33	0	9.7644847	294	9.9104155	151	9.8540694	445	0.1459306	0	27
	30	9.7645733	294	9.9103703	151	9.8542029	446	0.1457971	0	30
34	0	9.7646616	294	9.9103251	150	9.8543365	445	0.1456635	0	26
	30	9.7647499	295	9.9102800	151	9.8544700	445	0.1455300	0	30
35	0	9.7648382	295	9.9102348	151	9.8546034	445	0.1453966	0	25
	30	9.7649265	294	9.9101896	151	9.8547369	445	0.1452631	0	30
36	0	9.7650147	294	9.9101444	151	9.8548704	445	0.1451296	0	24
	30	9.7651030	294	9.9100991	150	9.8550038	445	0.1449962	0	30
37	0	9.7651911	294	9.9100539	150	9.8551372	445	0.1448628	0	23
	30	9.7652793	294	9.9100086	151	9.8552707	444	0.1447293	0	30
38	0	9.7653674	294	9.9099634	151	9.8554041	444	0.1445959	0	22
	30	9.7654555	294	9.9099181	151	9.8555375	444	0.1444625	0	30
39	0	9.7655436	294	9.9098728	151	9.8556708	444	0.1443292	0	21
	30	9.7656317	293	9.9098275	151	9.8558042	445	0.1441958	0	30
40	0	9.7657197	293	9.9097821	151	9.8559376	444	0.1440624	0	20
	30	9.7658077	293	9.9097368	151	9.8560709	444	0.1439291	0	30
41	0	9.7658957	293	9.9096915	152	9.8562042	445	0.1437958	0	19
	30	9.7659836	293	9.9096461	151	9.8563375	445	0.1436625	0	30
42	0	9.7660715	293	9.9096007	151	9.8564708	445	0.1435292	0	18
	30	9.7661594	293	9.9095553	151	9.8566041	444	0.1433959	0	30
43	0	9.7662473	293	9.9095099	151	9.8567374	444	0.1432626	0	17
	30	9.7663351	293	9.9094645	152	9.8568707	444	0.1431293	0	30
44	0	9.7664229	293	9.9094190	151	9.8570039	444	0.1429961	0	16
	30	9.7665107	293	9.9093736	152	9.8571371	444	0.1428629	0	30
45	0	9.7665985	292	9.9093281	151	9.8572704	444	0.1427296	0	15
	30	9.7666862	292	9.9092826	151	9.8574036	444	0.1425964	0	30
46	0	9.7667739	292	9.9092371	151	9.8575368	444	0.1424632	0	14
	30	9.7668616	292	9.9091916	151	9.8576699	444	0.1423301	0	30
47	0	9.7669492	292	9.9091461	152	9.8578031	444	0.1421969	0	13
	30	9.7670368	293	9.9091006	152	9.8579363	444	0.1420637	0	30
48	0	9.7671244	292	9.9090550	152	9.8580694	444	0.1419306	0	12
	30	9.7672120	292	9.9090095	152	9.8582025	444	0.1417975	0	30
49	0	9.7672996	291	9.9089639	152	9.8583357	443	0.1416643	0	11
	30	9.7673871	291	9.9089183	152	9.8584688	443	0.1415312	0	30
50	0	9.7674746	291	9.9088727	152	9.8586019	443	0.1413981	0	10
	30	9.7675620	292	9.9088271	152	9.8587349	444	0.1412651	0	30
51	0	9.7676494	292	9.9087814	152	9.8588680	444	0.1411320	0	9
	30	9.7677367	291	9.9087358	152	9.8590011	443	0.1409989	0	30
52	0	9.7678242	292	9.9086901	152	9.8591341	443	0.1408659	0	8
	30	9.7679116	291	9.9086445	153	9.8592671	444	0.1407329	0	30
53	0	9.7679989	291	9.9085988	153	9.8594002	443	0.1405998	0	7
	30	9.7680862	291	9.9085531	153	9.8595332	443	0.1404668	0	30
54	0	9.7681735	291	9.9085073	152	9.8596661	444	0.1403339	0	6
	30	9.7682607	291	9.9084616	152	9.8597991	443	0.1402009	0	30
55	0	9.7683480	290	9.9084159	153	9.8599321	443	0.1400679	0	5
	30	9.7684351	291	9.9083701	152	9.8600650	444	0.1399350	0	30
56	0	9.7685223	291	9.9083243	152	9.8601980	443	0.1398020	0	4
	30	9.7686095	290	9.9082785	152	9.8603309	443	0.1396691	0	30
57	0	9.7686966	290	9.9082327	152	9.8604638	443	0.1395362	0	3
	30	9.7687837	290	9.9081869	152	9.8605967	443	0.1394033	0	30
58	0	9.7688707	290	9.9081411	153	9.8607296	443	0.1392704	0	2
	30	9.7689577	291	9.9080953	153	9.8608625	443	0.1391375	0	30
59	0	9.7690448	289	9.9080494	153	9.8609954	442	0.1390046	0	1
	30	9.7691317	290	9.9080035	153	9.8611282	443	0.1388718	0	30
60	0	9.7692187		9.9079576		9.8612610		0.1387390	0	0
°	'	l. cosin.	diff. 10"	l. sin.	d. 10"	l. cotan.	diff. 10"	l. tang.	"	'

54 deg.

36 deg.

"	'	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	'	"
0	o	9.7692187	290	9.9079576	153	9.8612610	443	0.1387390	o	60
	30	9.7693056	290	9.9079117	153	9.8613939	442	0.1386061	30	
1	o	9.7693925	290	9.9078658	153	9.8615267	442	0.1384733	o	59
	30	9.7694794	289	9.9078199	153	9.8616595	442	0.1383405	30	
2	o	9.7695662	290	9.9077740	154	9.8617923	442	0.1382077	o	58
	30	9.7696531	289	9.9077280	153	9.8619250	443	0.1380750	30	
3	o	9.7697398	290	9.9076820	153	9.8620578	443	0.1379422	o	57
	30	9.7698266	289	9.9076361	154	9.8621906	442	0.1378094	30	
4	o	9.7699134	289	9.9075901	154	9.8623233	442	0.1376767	o	56
	30	9.7700001	289	9.9075440	153	9.8624560	443	0.1375440	30	
5	o	9.7700868	288	9.9074980	153	9.8625887	443	0.1374113	o	55
	30	9.7701734	289	9.9074520	154	9.8627214	443	0.1372786	30	
6	o	9.7702601	288	9.9074059	153	9.8628541	443	0.1371459	o	54
	30	9.7703467	288	9.9073599	154	9.8629868	442	0.1370132	30	
7	o	9.7704332	289	9.9073138	154	9.8631195	442	0.1368805	o	53
	30	9.7705198	288	9.9072677	154	9.8632521	442	0.1367479	30	
8	o	9.7706063	289	9.9072216	154	9.8633848	442	0.1366152	o	52
	30	9.7706928	289	9.9071754	153	9.8635174	442	0.1364826	30	
9	o	9.7707793	288	9.9071293	154	9.8636500	442	0.1363500	o	51
	30	9.7708658	288	9.9070832	154	9.8637826	442	0.1362174	30	
10	o	9.7709522	288	9.9070370	154	9.8639152	442	0.1360848	o	50
	30	9.7710385	288	9.9069908	154	9.8640478	442	0.1359522	30	
11	o	9.7711249	288	9.9069446	154	9.8641803	442	0.1358197	o	49
	30	9.7712113	288	9.9068984	154	9.8643129	442	0.1356871	30	
12	o	9.7712976	288	9.9068522	154	9.8644454	442	0.1355546	o	48
	30	9.7713839	288	9.9068060	154	9.8645780	441	0.1354220	30	
13	o	9.7714702	287	9.9067597	154	9.8647105	441	0.1352895	o	47
	30	9.7715564	287	9.9067134	154	9.8648430	441	0.1351570	30	
14	o	9.7716426	288	9.9066671	154	9.8649755	441	0.1350245	o	46
	30	9.7717288	287	9.9066208	154	9.8651080	441	0.1348920	30	
15	o	9.7718150	287	9.9065745	154	9.8652404	442	0.1347596	o	45
	30	9.7719011	287	9.9065282	154	9.8653729	441	0.1346271	30	
16	o	9.7719872	287	9.9064819	155	9.8655053	442	0.1344947	o	44
	30	9.7720733	287	9.9064355	154	9.8656378	441	0.1343622	30	
17	o	9.7721593	287	9.9063892	155	9.8657702	441	0.1342298	o	43
	30	9.7722454	286	9.9063428	155	9.8659026	441	0.1340974	30	
18	o	9.7723314	286	9.9062964	155	9.8660350	441	0.1339650	o	42
	30	9.7724174	286	9.9062500	155	9.8661674	441	0.1338326	30	
19	o	9.7725033	286	9.9062036	155	9.8662997	442	0.1337003	o	41
	30	9.7725892	287	9.9061571	154	9.8664321	441	0.1335679	30	
20	o	9.7726751	286	9.9061107	155	9.8665644	442	0.1334356	o	40
	30	9.7727610	286	9.9060642	155	9.8666968	441	0.1333032	30	
21	o	9.7728468	286	9.9060177	155	9.8668291	441	0.1331709	o	39
	30	9.7729327	286	9.9059713	155	9.8669614	441	0.1330386	30	
22	o	9.7730185	285	9.9059247	155	9.8670937	441	0.1329063	o	38
	30	9.7731042	286	9.9058782	155	9.8672260	441	0.1327740	30	
23	o	9.7731900	285	9.9058317	155	9.8673583	441	0.1326417	o	37
	30	9.7732757	285	9.9057851	155	9.8674905	441	0.1325095	30	
24	o	9.7733614	285	9.9057386	155	9.8676228	441	0.1323772	o	36
	30	9.7734470	286	9.9056920	155	9.8677550	441	0.1322450	30	
25	o	9.7735327	285	9.9056454	155	9.8678873	440	0.1321127	o	35
	30	9.7736183	285	9.9055988	155	9.8680195	440	0.1319805	30	
26	o	9.7737039	285	9.9055522	155	9.8681517	440	0.1318483	o	34
	30	9.7737894	285	9.9055056	156	9.8682839	440	0.1317161	30	
27	o	9.7738749	286	9.9054589	155	9.8684160	441	0.1315840	o	33
	30	9.7739605	285	9.9054122	155	9.8685482	441	0.1314518	30	
28	o	9.7740459	285	9.9053656	156	9.8686804	440	0.1313196	o	32
	30	9.7741314	285	9.9053189	156	9.8688125	441	0.1311875	30	
29	o	9.7742168	285	9.9052722	156	9.8689446	441	0.1310554	o	31
	30	9.7743022	285	9.9052255	156	9.8690768	440	0.1309232	30	
30	o	9.7743876		9.9051787		9.8692089		0.1307911	o	30
			10''		10''		10''			
"	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

53 deg.

36 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.7743876	285	9.9051787	156	9.8692089	440	0.1307911	0	30
30	30	9.7744729	285	9.9051320	156	9.8693410	440	0.1305590	30	30
31	0	9.7745583	284	9.9050852	156	9.8694731	440	0.1305269	0	29
31	30	9.7746436	284	9.9050384	156	9.8696051	441	0.1303949	30	30
32	0	9.7747288	285	9.9049916	156	9.8697372	440	0.1302628	0	28
32	30	9.7748141	284	9.9049448	156	9.8698692	441	0.1301308	30	30
33	0	9.7748993	284	9.9048980	156	9.8700013	440	0.1299987	0	27
33	30	9.7749845	284	9.9048512	156	9.8701333	440	0.1298667	30	30
34	0	9.7750697	284	9.9048043	156	9.8702653	440	0.1297347	0	26
34	30	9.7751548	284	9.9047575	156	9.8703973	440	0.1296027	30	30
35	0	9.7752399	284	9.9047106	156	9.8705293	440	0.1294707	0	25
35	30	9.7753250	284	9.9046637	156	9.8706613	440	0.1293387	30	30
36	0	9.7754101	283	9.9046168	156	9.8707933	440	0.1292067	0	24
36	30	9.7754951	284	9.9045699	156	9.8709252	440	0.1290748	30	30
37	0	9.7755801	284	9.9045230	157	9.8710572	440	0.1289428	0	23
37	30	9.7756651	284	9.9044760	156	9.8711891	440	0.1288109	30	30
38	0	9.7757501	283	9.9044291	157	9.8713210	440	0.1286790	0	22
38	30	9.7758350	283	9.9043821	157	9.8714529	440	0.1285471	30	30
39	0	9.7759199	283	9.9043351	157	9.8715848	440	0.1284152	0	21
39	30	9.7760048	283	9.9042881	157	9.8717167	440	0.1282833	30	30
40	0	9.7760897	283	9.9042411	157	9.8718486	440	0.1281514	0	20
40	30	9.7761745	283	9.9041940	156	9.8719805	439	0.1280195	30	30
41	0	9.7762593	283	9.9041470	157	9.8721123	440	0.1278877	0	19
41	30	9.7763441	283	9.9040999	157	9.8722442	439	0.1277558	30	30
42	0	9.7764289	282	9.9040529	157	9.8723760	439	0.1276240	0	18
42	30	9.7765136	282	9.9040058	157	9.8725078	440	0.1274922	30	30
43	0	9.7765983	282	9.9039587	157	9.8726396	440	0.1273604	0	17
43	30	9.7766830	282	9.9039115	157	9.8727714	440	0.1272286	30	30
44	0	9.7767676	282	9.9038644	157	9.8729032	439	0.1270968	0	16
44	30	9.7768523	282	9.9038173	157	9.8730350	439	0.1269650	30	30
45	0	9.7769369	282	9.9037701	157	9.8731668	439	0.1268332	0	15
45	30	9.7770214	282	9.9037229	157	9.8732985	439	0.1267015	30	30
46	0	9.7771060	282	9.9036757	157	9.8734302	440	0.1265698	0	14
46	30	9.7771905	282	9.9036285	157	9.8735620	439	0.1264380	30	30
47	0	9.7772750	282	9.9035813	157	9.8736937	439	0.1263063	0	13
47	30	9.7773595	281	9.9035341	158	9.8738254	439	0.1261746	30	30
48	0	9.7774439	282	9.9034868	157	9.8739571	439	0.1260429	0	12
48	30	9.7775284	281	9.9034396	158	9.8740888	439	0.1259112	30	30
49	0	9.7776128	281	9.9033923	158	9.8742204	439	0.1257796	0	11
49	30	9.7776971	281	9.9033450	157	9.8743521	439	0.1256479	30	30
50	0	9.7777815	281	9.9032977	158	9.8744838	438	0.1255162	0	10
50	30	9.7778658	281	9.9032504	158	9.8746154	439	0.1253846	30	30
51	0	9.7779501	281	9.9032031	158	9.8747470	439	0.1252530	0	9
51	30	9.7780344	280	9.9031557	158	9.8748786	439	0.1251214	30	30
52	0	9.7781186	281	9.9031084	158	9.8750102	439	0.1249898	0	8
52	30	9.7782028	281	9.9030610	158	9.8751418	439	0.1248582	30	30
53	0	9.7782870	281	9.9030136	158	9.8752734	439	0.1247266	0	7
53	30	9.7783712	280	9.9029662	158	9.8754050	438	0.1245950	30	30
54	0	9.7784553	281	9.9029188	158	9.8755365	439	0.1244635	0	6
54	30	9.7785394	281	9.9028713	158	9.8756681	438	0.1243319	30	30
55	0	9.7786235	280	9.9028239	158	9.8757996	439	0.1242004	0	5
55	30	9.7787076	280	9.9027764	158	9.8759312	438	0.1240688	30	30
56	0	9.7787916	280	9.9027289	158	9.8760627	438	0.1239373	0	4
56	30	9.7788756	280	9.9026815	159	9.8761942	438	0.1238058	30	30
57	0	9.7789596	280	9.9026339	158	9.8763257	438	0.1236743	0	3
57	30	9.7790436	280	9.9025864	158	9.8764572	438	0.1235428	30	30
58	0	9.7791275	280	9.9025389	159	9.8765886	439	0.1234114	0	2
58	30	9.7792114	280	9.9024913	158	9.8767201	438	0.1232799	30	30
59	0	9.7792953	280	9.9024438	159	9.8768515	439	0.1231485	0	1
59	30	9.7793792	279	9.9023962	159	9.8769830	438	0.1230170	30	30
60	0	9.7794630		9.9023486		9.8771144		0.1228856	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

53 deg.



37 deg.

°	'	l. sin.	dif. 10''	l. cosin.	dif. 10''	l. tang.	dif. 10''	l. cotan.	'	°
0	0	9.7794630	280	9.9023486	159	9.8771144	438	0.1228856	0	60
	30	9.7795468	280	9.9023010	159	9.8772458	438	0.1227542	30	
1	0	9.7796306	279	9.9022534	159	9.8773772	438	0.1226228	0	59
	30	9.7797144	279	9.9022058	159	9.8775086	438	0.1224914	30	
2	0	9.7797981	279	9.9021581	159	9.8776400	438	0.1223600	0	58
	30	9.7798818	279	9.9021104	158	9.8777714	438	0.1222286	30	
3	0	9.7799655	279	9.9020628	159	9.8779027	438	0.1220973	0	57
	30	9.7800492	278	9.9020151	159	9.8780341	438	0.1219659	30	
4	0	9.7801328	279	9.9019674	159	9.8781654	438	0.1218346	0	56
	30	9.7802164	279	9.9019196	159	9.8782968	437	0.1217032	30	
5	0	9.7803000	278	9.9018719	159	9.8784281	438	0.1215719	0	55
	30	9.7803836	278	9.9018242	160	9.8785594	438	0.1214406	30	
6	0	9.7804671	278	9.9017764	159	9.8786907	438	0.1213093	0	54
	30	9.7805506	278	9.9017286	159	9.8788220	437	0.1211780	30	
7	0	9.7806341	278	9.9016808	159	9.8789533	437	0.1210467	0	53
	30	9.7807175	278	9.9016330	159	9.8790845	438	0.1209155	30	
8	0	9.7808010	278	9.9015852	160	9.8792158	437	0.1207842	0	52
	30	9.7808844	278	9.9015374	160	9.8793470	438	0.1206530	30	
9	0	9.7809677	278	9.9014895	159	9.8794782	438	0.1205218	0	51
	30	9.7810511	278	9.9014416	159	9.8796095	437	0.1203905	30	
10	0	9.7811344	278	9.9013938	160	9.8797407	437	0.1202593	0	50
	30	9.7812177	278	9.9013459	160	9.8798719	437	0.1201281	30	
11	0	9.7813010	278	9.9012980	160	9.8800031	437	0.1199969	0	49
	30	9.7813843	277	9.9012500	159	9.8801342	438	0.1198658	30	
12	0	9.7814675	277	9.9012021	160	9.8802654	437	0.1197346	0	48
	30	9.7815507	277	9.9011541	159	9.8803966	437	0.1196034	30	
13	0	9.7816339	277	9.9011062	160	9.8805277	437	0.1194723	0	47
	30	9.7817170	278	9.9010582	160	9.8806589	437	0.1193411	30	
14	0	9.7818002	277	9.9010102	160	9.8807900	437	0.1192100	0	46
	30	9.7818833	277	9.9009622	160	9.8809211	437	0.1190789	30	
15	0	9.7819664	276	9.9009142	161	9.8810522	437	0.1189478	0	45
	30	9.7820494	277	9.9008661	160	9.8811833	437	0.1188167	30	
16	0	9.7821324	277	9.9008181	161	9.8813144	437	0.1186856	0	44
	30	9.7822154	277	9.9007700	160	9.8814455	436	0.1185545	30	
17	0	9.7822984	277	9.9007219	160	9.8815765	437	0.1184235	0	43
	30	9.7823814	276	9.9006738	160	9.8817076	436	0.1182924	30	
18	0	9.7824643	276	9.9006257	160	9.8818386	437	0.1181614	0	42
	30	9.7825472	276	9.9005776	161	9.8819696	437	0.1180304	30	
19	0	9.7826301	276	9.9005294	160	9.8821007	436	0.1178993	0	41
	30	9.7827129	277	9.9004813	161	9.8822317	436	0.1177683	30	
20	0	9.7827958	276	9.9004331	160	9.8823627	436	0.1176373	0	40
	30	9.7828786	276	9.9003849	160	9.8824937	436	0.1175063	30	
21	0	9.7829614	275	9.9003367	160	9.8826246	437	0.1173754	0	39
	30	9.7830441	276	9.9002885	161	9.8827556	437	0.1172444	30	
22	0	9.7831268	276	9.9002403	161	9.8828866	436	0.1171134	0	38
	30	9.7832095	276	9.9001920	160	9.8830175	437	0.1169825	30	
23	0	9.7832922	276	9.9001438	161	9.8831484	437	0.1168516	0	37
	30	9.7833749	275	9.9000955	161	9.8832794	436	0.1167206	30	
24	0	9.7834575	276	9.9000472	161	9.8834103	436	0.1165897	0	36
	30	9.7835401	275	9.8999989	161	9.8835412	436	0.1164588	30	
25	0	9.7836227	275	9.8999506	161	9.8836721	436	0.1163279	0	35
	30	9.7837053	275	9.8999023	161	9.8838030	436	0.1161970	30	
26	0	9.7837878	275	9.8998539	161	9.8839338	437	0.1160662	0	34
	30	9.7838703	275	9.8998056	161	9.8840647	436	0.1159353	30	
27	0	9.7839528	275	9.8997572	161	9.8841955	436	0.1158044	0	33
	30	9.7840352	275	9.8997088	161	9.8843264	436	0.1156735	30	
28	0	9.7841177	274	9.8996604	161	9.8844572	436	0.1155428	0	32
	30	9.7842001	274	9.8996120	161	9.8845881	436	0.1154119	30	
29	0	9.7842824	275	9.8995636	162	9.8847189	436	0.1152811	0	31
	30	9.7843648	274	9.8995151	161	9.8848497	436	0.1151503	30	
30	0	9.7844471		9.8994667		9.8849805		0.1150195	0	30
			10''		10''		10''			
	'	l. cosin.	dif.	l. sin.	dif.	l. cotan.	dif.	l. tang.	'	°

52 deg.

37 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	'	°
30	0	9.7844471	275	9.8994667	162	9.8849805	436	0.1150195	0	30
	30	9.7845294	275	9.8994182	162	9.8851113	435	0.1148887	30	
31	0	9.7846117	274	9.8993697	162	9.8852420	436	0.1147580	0	29
	30	9.7846940	274	9.8993212	162	9.8853728	436	0.1146272	30	
32	0	9.7847762	274	9.8992727	162	9.8855035	436	0.1144965	0	28
	30	9.7848584	274	9.8992241	162	9.8856343	436	0.1143657	30	
33	0	9.7849406	274	9.8991756	162	9.8857650	436	0.1142350	0	27
	30	9.7850228	273	9.8991270	162	9.8858957	436	0.1141043	30	
34	0	9.7851049	274	9.8990784	162	9.8860264	436	0.1139736	0	26
	30	9.7851870	274	9.8990298	162	9.8861572	435	0.1138428	30	
35	0	9.7852691	273	9.8989812	162	9.8862878	436	0.1137122	0	25
	30	9.7853511	274	9.8989326	162	9.8864185	436	0.1135815	30	
36	0	9.7854332	273	9.8988840	162	9.8865492	435	0.1134508	0	24
	30	9.7855152	273	9.8988353	162	9.8866799	435	0.1133201	30	
37	0	9.7855972	273	9.8987867	163	9.8868105	436	0.1131895	0	23
	30	9.7856791	273	9.8987380	162	9.8869411	436	0.1130589	30	
38	0	9.7857611	273	9.8986893	162	9.8870718	435	0.1129282	0	22
	30	9.7858430	273	9.8986406	163	9.8872024	435	0.1127976	30	
39	0	9.7859249	273	9.8985919	163	9.8873330	435	0.1126670	0	21
	30	9.7860067	273	9.8985431	162	9.8874636	435	0.1125364	30	
40	0	9.7860886	272	9.8984944	163	9.8875942	435	0.1124058	0	20
	30	9.7861704	272	9.8984456	163	9.8877248	435	0.1122752	30	
41	0	9.7862522	272	9.8983968	163	9.8878554	435	0.1121446	0	19
	30	9.7863339	273	9.8983480	163	9.8879859	435	0.1120141	30	
42	0	9.7864157	272	9.8982992	163	9.8881165	435	0.1118835	0	18
	30	9.7864974	272	9.8982504	163	9.8882470	435	0.1117530	30	
43	0	9.7865791	272	9.8982015	163	9.8883775	436	0.1116225	0	17
	30	9.7866607	273	9.8981527	163	9.8885081	435	0.1114919	30	
44	0	9.7867424	272	9.8981038	163	9.8886386	435	0.1113614	0	16
	30	9.7868240	272	9.8980549	163	9.8887691	435	0.1112309	30	
45	0	9.7869056	272	9.8980060	163	9.8888996	435	0.1111004	0	15
	30	9.7869872	271	9.8979571	163	9.8890301	434	0.1109699	30	
46	0	9.7870687	271	9.8979082	163	9.8891605	435	0.1108395	0	14
	30	9.7871503	272	9.8978592	163	9.8892910	435	0.1107090	30	
47	0	9.7872317	272	9.8978103	164	9.8894214	435	0.1105786	0	13
	30	9.7873132	271	9.8977613	163	9.8895519	435	0.1104481	30	
48	0	9.7873946	272	9.8977123	163	9.8896823	435	0.1103177	0	12
	30	9.7874760	272	9.8976633	163	9.8898127	435	0.1101873	30	
49	0	9.7875574	272	9.8976143	164	9.8899432	434	0.1100568	0	11
	30	9.7876388	271	9.8975652	163	9.8900736	434	0.1099264	30	
50	0	9.7877202	271	9.8975162	164	9.8902040	434	0.1097960	0	10
	30	9.7878015	271	9.8974671	163	9.8903343	435	0.1096657	30	
51	0	9.7878828	271	9.8974181	163	9.8904647	435	0.1095353	0	9
	30	9.7879640	271	9.8973690	164	9.8905951	434	0.1094049	30	
52	0	9.7880453	271	9.8973199	164	9.8907254	435	0.1092746	0	8
	30	9.7881265	271	9.8972707	163	9.8908558	434	0.1091442	30	
53	0	9.7882077	271	9.8972216	164	9.8909861	435	0.1090139	0	7
	30	9.7882889	271	9.8971724	164	9.8911165	434	0.1088835	30	
54	0	9.7883701	270	9.8971233	164	9.8912468	434	0.1087532	0	6
	30	9.7884512	270	9.8970741	164	9.8913771	434	0.1086229	30	
55	0	9.7885323	270	9.8970249	164	9.8915074	434	0.1084926	0	5
	30	9.7886134	270	9.8969757	164	9.8916377	434	0.1083623	30	
56	0	9.7886944	270	9.8969265	164	9.8917679	435	0.1082321	0	4
	30	9.7887754	271	9.8968772	164	9.8918982	434	0.1081018	30	
57	0	9.7888565	269	9.8968280	164	9.8920285	434	0.1079715	0	3
	30	9.7889374	270	9.8967787	164	9.8921587	434	0.1078413	30	
58	0	9.7890184	270	9.8967294	164	9.8922890	434	0.1077110	0	2
	30	9.7890993	270	9.8966801	164	9.8924192	434	0.1075808	30	
59	0	9.7891802	270	9.8966308	164	9.8925494	434	0.1074506	0	1
	30	9.7892611	270	9.8965815	165	9.8926796	434	0.1073204	30	
60	0	9.7893420		9.8965321		9.8928098		0.1071902	0	0
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

52 deg.

38 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
0	o	9.783420	269	9.8265321	164	9.828098	434	0.1071902	o	60
	30	9.7834228	270	9.8264828	165	9.8289400	434	0.1070600	30	
1	o	9.7835036	270	9.8264334	164	9.8290702	434	0.1069238	o	59
	30	9.7835844	269	9.8263840	164	9.8292004	434	0.1067936	30	
2	o	9.7836652	269	9.8263346	164	9.8293306	433	0.1066634	o	58
	30	9.7837459	269	9.8262852	165	9.8294607	434	0.1065333	30	
3	o	9.7838265	269	9.8262358	165	9.8295909	433	0.1064031	o	57
	30	9.7839073	269	9.8261863	165	9.8297210	434	0.1062730	30	
4	o	9.7839880	269	9.8261369	165	9.8298511	434	0.1061428	o	56
	30	9.7900686	269	9.8260874	165	9.8299812	434	0.1060128	30	
5	o	9.7901493	268	9.8260379	165	9.8241114	433	0.1058826	o	55
	30	9.7902298	269	9.8259884	165	9.8242415	433	0.1057525	30	
6	o	9.7903104	269	9.8259389	165	9.8243715	434	0.1056225	o	54
	30	9.7903910	268	9.8258893	165	9.8245016	434	0.1054924	30	
7	o	9.7904715	268	9.8258398	165	9.8246317	434	0.1053623	o	53
	30	9.7905520	268	9.8257902	165	9.8247618	433	0.1052322	30	
8	o	9.7906325	268	9.8257406	165	9.8248918	434	0.1051022	o	52
	30	9.7907129	268	9.8256910	165	9.8250219	433	0.1049721	30	
9	o	9.7907933	268	9.8256414	165	9.8251519	433	0.1048421	o	51
	30	9.7908737	268	9.8255918	165	9.8252819	434	0.1047121	30	
10	o	9.7909541	268	9.8255422	166	9.8254119	434	0.1045821	o	50
	30	9.7910345	267	9.8254925	165	9.8255419	434	0.1044521	30	
11	o	9.7911148	268	9.8254429	166	9.8256719	434	0.1043221	o	49
	30	9.7911951	268	9.8253932	166	9.8258019	434	0.1041921	30	
12	o	9.7912754	267	9.8253435	166	9.8259319	433	0.1040621	o	48
	30	9.7913556	268	9.8252938	166	9.8260619	433	0.1039321	30	
13	o	9.7914359	267	9.8252440	166	9.8261918	434	0.1038022	o	47
	30	9.7915161	267	9.8251943	166	9.8263218	433	0.1036722	30	
14	o	9.7915963	267	9.8251445	166	9.8264517	434	0.1035423	o	46
	30	9.7916764	267	9.8250947	165	9.8265817	433	0.1034123	30	
15	o	9.7917566	267	9.8250450	166	9.8267116	433	0.1032824	o	45
	30	9.7918367	267	9.8249952	166	9.8268415	433	0.1031524	30	
16	o	9.7919168	267	9.8249453	166	9.8269714	433	0.1030225	o	44
	30	9.7919968	267	9.8248955	166	9.8271013	433	0.1028926	30	
17	o	9.7920769	266	9.8248457	167	9.8272312	433	0.1027627	o	43
	30	9.7921569	267	9.8247958	166	9.8273611	433	0.1026328	30	
18	o	9.7922369	266	9.8247459	166	9.8274910	432	0.1025029	o	42
	30	9.7923168	267	9.8246960	166	9.8276208	433	0.1023730	30	
19	o	9.7923968	266	9.8246461	166	9.8277507	433	0.1022431	o	41
	30	9.7924767	267	9.8245962	166	9.8278805	433	0.1021132	30	
20	o	9.7925566	266	9.8245463	167	9.8280104	432	0.1019833	o	40
	30	9.7926365	266	9.8244963	166	9.8281402	433	0.1018534	30	
21	o	9.7927163	266	9.8244463	166	9.8282700	433	0.1017235	o	39
	30	9.7927962	266	9.8243964	167	9.8283998	433	0.1015936	30	
22	o	9.7928760	266	9.8243464	167	9.8285296	433	0.1014637	o	38
	30	9.7929557	266	9.8242963	166	9.8286594	433	0.1013338	30	
23	o	9.7930355	266	9.8242463	167	9.8287892	432	0.1012039	o	37
	30	9.7931152	266	9.8241963	167	9.8289190	432	0.1010740	30	
24	o	9.7931949	266	9.8241462	167	9.8290487	433	0.1009441	o	36
	30	9.7932746	266	9.8240961	166	9.8291785	432	0.1008142	30	
25	o	9.7933543	265	9.8240461	167	9.8293082	433	0.1006843	o	35
	30	9.7934339	266	9.8239960	167	9.8294380	432	0.1005544	30	
26	o	9.7935135	266	9.8239458	167	9.8295677	432	0.1004245	o	34
	30	9.7935931	265	9.8238957	167	9.8296974	432	0.1002946	30	
27	o	9.7936727	265	9.8238455	168	9.8298271	432	0.1001647	o	33
	30	9.7937522	265	9.8237954	167	9.8299568	432	0.1000348	30	
28	o	9.7938317	265	9.8237452	167	9.9000865	432	0.0999049	o	32
	30	9.7939112	265	9.8236950	167	9.9002162	432	0.0997750	30	
29	o	9.7939907	265	9.8236448	167	9.9003459	432	0.0996451	o	31
	30	9.7940701	265	9.8235946	167	9.9004755	433	0.0995152	30	
30	o	9.7941496		9.8235444		9.9006052		0.0993853	o	30
			10''		10''		10''			
/	//	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	//	/

51 deg.

38 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.7941496	264	9.8935444	168	9.9006052	432	0.0993948	0	30
	30	9.7942290	264	9.8934941	167	9.9007348	433	0.0992652	0	30
31	0	9.7943083	265	9.8934439	168	9.9008645	432	0.0991355	0	29
	30	9.7943877	264	9.8933936	168	9.9009941	432	0.0990059	0	30
32	0	9.7944670	265	9.8933433	168	9.9011237	433	0.0988763	0	28
	30	9.7945463	265	9.8932930	168	9.9012534	432	0.0987466	0	30
33	0	9.7946256	264	9.8932426	167	9.9013830	432	0.0986170	0	27
	30	9.7947049	264	9.8931923	168	9.9015126	432	0.0984874	0	30
34	0	9.7947841	264	9.8931419	168	9.9016422	431	0.0983578	0	26
	30	9.7948633	264	9.8930916	168	9.9017717	432	0.0982283	0	30
35	0	9.7949425	264	9.8930412	168	9.9019013	432	0.0980987	0	25
	30	9.7950216	264	9.8929908	168	9.9020309	432	0.0979691	0	30
36	0	9.7951008	264	9.8929404	168	9.9021604	432	0.0978396	0	24
	30	9.7951799	264	9.8928900	168	9.9022900	432	0.0977100	0	30
37	0	9.7952590	263	9.8928395	168	9.9024195	432	0.0975805	0	23
	30	9.7953381	263	9.8927890	168	9.9025490	432	0.0974510	0	30
38	0	9.7954171	263	9.8927385	168	9.9026786	431	0.0973214	0	22
	30	9.7954961	264	9.8926880	163	9.9028081	431	0.0971919	0	30
39	0	9.7955751	263	9.8926375	168	9.9029376	431	0.0970624	0	21
	30	9.7956541	263	9.8925870	168	9.9030671	431	0.0969329	0	30
40	0	9.7957330	263	9.8925365	169	9.9031966	431	0.0968034	0	20
	30	9.7958120	263	9.8924860	168	9.9033260	432	0.0966740	0	30
41	0	9.7958909	263	9.8924354	169	9.9034555	432	0.0965445	0	19
	30	9.7959697	263	9.8923848	169	9.9035850	431	0.0964150	0	30
42	0	9.7960486	263	9.8923342	169	9.9037144	432	0.0962856	0	18
	30	9.7961274	263	9.8922836	169	9.9038439	431	0.0961561	0	30
43	0	9.7962062	263	9.8922329	168	9.9039733	431	0.0960267	0	17
	30	9.7962850	263	9.8921825	169	9.9041027	432	0.0958973	0	30
44	0	9.7963638	262	9.8921316	168	9.9042321	432	0.0957679	0	16
	30	9.7964425	263	9.8920810	169	9.9043616	431	0.0956384	0	30
45	0	9.7965212	263	9.8920303	169	9.9044910	431	0.0955090	0	15
	30	9.7965999	263	9.8919796	169	9.9046204	431	0.0953796	0	30
46	0	9.7966786	262	9.8919289	170	9.9047497	432	0.0952503	0	14
	30	9.7967572	262	9.8918781	169	9.9048791	431	0.0951209	0	30
47	0	9.7968359	262	9.8918274	169	9.9050085	431	0.0949915	0	13
	30	9.7969145	262	9.8917766	169	9.9051378	432	0.0948622	0	30
48	0	9.7969930	262	9.8917258	169	9.9052672	431	0.0947328	0	12
	30	9.7970716	262	9.8916750	169	9.9053965	432	0.0946035	0	30
49	0	9.7971501	262	9.8916242	169	9.9055259	431	0.0944741	0	11
	30	9.7972286	262	9.8915734	169	9.9056552	431	0.0943448	0	30
50	0	9.7973071	261	9.8915226	170	9.9057845	431	0.0942155	0	10
	30	9.7973856	261	9.8914717	169	9.9059138	431	0.0940862	0	30
51	0	9.7974640	261	9.8914208	169	9.9060431	431	0.0939569	0	9
	30	9.7975424	261	9.8913700	170	9.9061724	431	0.0938276	0	30
52	0	9.7976208	261	9.8913191	170	9.9063017	431	0.0936983	0	8
	30	9.7976991	262	9.8912681	169	9.9064310	431	0.0935690	0	30
53	0	9.7977775	261	9.8912172	170	9.9065603	431	0.0934397	0	7
	30	9.7978558	261	9.8911663	170	9.9066895	431	0.0933105	0	30
54	0	9.7979341	261	9.8911153	170	9.9068188	431	0.0931812	0	6
	30	9.7980124	261	9.8910643	170	9.9069480	431	0.0930520	0	30
55	0	9.7980906	261	9.8910133	170	9.9070773	431	0.0929227	0	5
	30	9.7981688	261	9.8909623	170	9.9072065	431	0.0927935	0	30
56	0	9.7982470	261	9.8909111	170	9.9073357	431	0.0926643	0	4
	30	9.7983252	261	9.8908600	170	9.9074649	431	0.0925351	0	30
57	0	9.7984034	260	9.8908089	170	9.9075941	431	0.0924059	0	3
	30	9.7984815	260	9.8907572	171	9.9077233	431	0.0922767	0	30
58	0	9.7985596	260	9.8907071	171	9.9078525	431	0.0921475	0	2
	30	9.7986377	260	9.8906560	171	9.9079817	431	0.0920183	0	30
59	0	9.7987158	260	9.8906049	171	9.9081109	430	0.0918891	0	1
	30	9.7987938	260	9.8905537	170	9.9082401	430	0.0917599	0	30
60	0	9.7988718		9.8905026		9.9083692		0.0916308	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

51 deg.



39 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.7988718	260	9.8905026	171	9.9083692	431	0.0916308	0	60
	30	9.7989498	260	9.8904514	170	9.9084984	430	0.0915016	30	
1	0	9.7990278	257	9.8904003	171	9.9086275	430	0.0913725	0	59
	30	9.7991057	260	9.8903491	171	9.9087566	431	0.0912434	30	
2	0	9.7991836	260	9.8902979	171	9.9088858	430	0.0911142	0	58
	30	9.7992615	260	9.8902467	171	9.9090149	430	0.0909851	30	
3	0	9.7993394	260	9.8901954	171	9.9091440	430	0.0908560	0	57
	30	9.7994173	259	9.8901442	171	9.9092731	430	0.0907269	30	
4	0	9.7994951	259	9.8900929	171	9.9094022	430	0.0905978	0	56
	30	9.7995729	259	9.8900416	171	9.9095313	430	0.0904687	30	
5	0	9.7996507	259	9.8899903	171	9.9096603	431	0.0903397	0	55
	30	9.7997284	259	9.8899390	171	9.9097894	430	0.0902106	30	
6	0	9.7998062	259	9.8898877	171	9.9099185	430	0.0900815	0	54
	30	9.7998839	259	9.8898364	172	9.9100475	431	0.0899525	30	
7	0	9.7999616	259	9.8897850	171	9.9101766	430	0.0898234	0	53
	30	9.8000392	259	9.8897336	171	9.9103056	430	0.0896944	30	
8	0	9.8001169	259	9.8896822	171	9.9104347	430	0.0895653	0	52
	30	9.8001945	259	9.8896308	171	9.9105637	430	0.0894363	30	
9	0	9.8002721	259	9.8895794	171	9.9106927	430	0.0893073	0	51
	30	9.8003497	258	9.8895280	172	9.9108217	430	0.0891783	30	
10	0	9.8004272	259	9.8894765	171	9.9109507	430	0.0890493	0	50
	30	9.8005048	258	9.8894251	172	9.9110797	430	0.0889203	30	
11	0	9.8005823	258	9.8893736	172	9.9112087	430	0.0887913	0	49
	30	9.8006598	258	9.8893221	172	9.9113377	429	0.0886623	30	
12	0	9.8007372	258	9.8892706	172	9.9114666	430	0.0885334	0	48
	30	9.8008147	258	9.8892191	172	9.9115956	430	0.0884044	30	
13	0	9.8008921	258	9.8891675	172	9.9117245	430	0.0882755	0	47
	30	9.8009695	257	9.8891160	172	9.9118535	430	0.0881465	30	
14	0	9.8010468	258	9.8890644	172	9.9119824	430	0.0880176	0	46
	30	9.8011242	257	9.8890128	172	9.9121114	429	0.0878886	30	
15	0	9.8012015	258	9.8889612	172	9.9122403	429	0.0877597	0	45
	30	9.8012788	258	9.8889096	172	9.9123692	430	0.0876308	30	
16	0	9.8013561	257	9.8888580	172	9.9124981	430	0.0875019	0	44
	30	9.8014333	258	9.8888063	172	9.9126270	430	0.0873730	30	
17	0	9.8015106	257	9.8887547	173	9.9127559	430	0.0872441	0	43
	30	9.8015878	257	9.8887030	172	9.9128848	429	0.0871152	30	
18	0	9.8016649	258	9.8886513	172	9.9130137	429	0.0869863	0	42
	30	9.8017421	257	9.8885996	173	9.9131425	430	0.0868575	30	
19	0	9.8018192	258	9.8885479	173	9.9132714	429	0.0867286	0	41
	30	9.8018964	257	9.8884961	172	9.9134002	430	0.0865998	30	
20	0	9.8019736	256	9.8884444	173	9.9135291	429	0.0864709	0	40
	30	9.8020505	257	9.8883926	173	9.9136579	430	0.0863421	30	
21	0	9.8021276	256	9.8883408	173	9.9137863	429	0.0862132	0	39
	30	9.8022046	257	9.8882890	173	9.9139156	429	0.0860844	30	
22	0	9.8022816	257	9.8882372	173	9.9140444	429	0.0859556	0	38
	30	9.8023586	256	9.8881854	173	9.9141732	429	0.0858268	30	
23	0	9.8024355	257	9.8881335	173	9.9143020	429	0.0856980	0	37
	30	9.8025125	256	9.8880817	173	9.9144308	429	0.0855692	30	
24	0	9.8025894	256	9.8880298	173	9.9145596	429	0.0854404	0	36
	30	9.8026663	256	9.8879779	173	9.9146884	429	0.0853116	30	
25	0	9.8027431	256	9.8879260	173	9.9148171	430	0.0851829	0	35
	30	9.8028200	256	9.8878741	174	9.9149459	429	0.0850541	30	
26	0	9.8028968	256	9.8878221	173	9.9150747	429	0.0849253	0	34
	30	9.8029736	256	9.8877702	174	9.9152034	429	0.0847966	30	
27	0	9.8030504	255	9.8877182	173	9.9153322	429	0.0846678	0	33
	30	9.8031271	256	9.8876662	173	9.9154609	429	0.0845391	30	
28	0	9.8032038	255	9.8876142	173	9.9155896	429	0.0844104	0	32
	30	9.8032805	256	9.8875622	173	9.9157184	429	0.0842816	30	
29	0	9.8033572	256	9.8875102	174	9.9158471	429	0.0841529	0	31
	30	9.8034339	255	9.8874581	173	9.9159758	429	0.0840242	30	
30	0	9.8035105		9.8874061		9.9161045		0.0838955	0	30
°	'	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	'	°

50 deg.

39 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.8035105	255	9.8874061	174	9.9161045	429	0.0838955	0	30
	30	9.8035871	256	9.8873540	174	9.9162332	429	0.0837668	30	
31	0	9.8036637	256	9.8873019	174	9.9163618	429	0.0836382	0	29
	30	9.8037403	255	9.8872498	174	9.9164905	429	0.0835095	30	
32	0	9.8038168	256	9.8871977	174	9.9166192	429	0.0833808	0	28
	30	9.8038934	255	9.8871455	174	9.9167479	428	0.0832521	30	
33	0	9.8039699	255	9.8870934	174	9.9168765	429	0.0831235	0	27
	30	9.8040464	254	9.8870412	174	9.9170052	428	0.0829948	30	
34	0	9.8041228	255	9.8869890	174	9.9171338	429	0.0828662	0	26
	30	9.8041992	255	9.8869368	174	9.9172624	429	0.0827376	30	
35	0	9.8042757	254	9.8868846	175	9.9173911	428	0.0826089	0	25
	30	9.8043520	255	9.8868324	175	9.9175197	429	0.0824803	30	
36	0	9.8044284	255	9.8867801	174	9.9176483	429	0.0823517	0	24
	30	9.8045047	255	9.8867278	174	9.9177769	429	0.0822231	30	
37	0	9.8045811	254	9.8866756	175	9.9179055	429	0.0820945	0	23
	30	9.8046574	254	9.8866233	175	9.9180341	429	0.0819659	30	
38	0	9.8047335	255	9.8865710	175	9.9181627	428	0.0818373	0	22
	30	9.8048099	254	9.8865186	174	9.9182913	428	0.0817087	30	
39	0	9.8048861	254	9.8864663	175	9.9184198	429	0.0815802	0	21
	30	9.8049623	254	9.8864139	174	9.9185484	428	0.0814516	30	
40	0	9.8050385	254	9.8863616	175	9.9186769	429	0.0813231	0	20
	30	9.8051147	254	9.8863092	175	9.9188055	428	0.0811945	30	
41	0	9.8051908	254	9.8862568	175	9.9189340	429	0.0810660	0	19
	30	9.8052669	254	9.8862044	175	9.9190626	428	0.0809374	30	
42	0	9.8053430	254	9.8861519	175	9.9191911	428	0.0808089	0	18
	30	9.8054191	254	9.8860995	175	9.9193196	429	0.0806804	30	
43	0	9.8054951	254	9.8860470	175	9.9194481	429	0.0805519	0	17
	30	9.8055712	253	9.8859945	175	9.9195766	429	0.0804234	30	
44	0	9.8056472	253	9.8859420	175	9.9197051	429	0.0802949	0	16
	30	9.8057232	253	9.8858895	175	9.9198336	429	0.0801664	30	
45	0	9.8057991	253	9.8858370	176	9.9199621	428	0.0800379	0	15
	30	9.8058751	253	9.8857845	175	9.9200906	428	0.0799094	30	
46	0	9.8059510	253	9.8857319	175	9.9202191	428	0.0797809	0	14
	30	9.8060269	253	9.8856793	175	9.9203475	429	0.0796525	30	
47	0	9.8061027	253	9.8856267	175	9.9204760	428	0.0795240	0	13
	30	9.8061786	253	9.8855741	175	9.9206044	429	0.0793956	30	
48	0	9.8062544	253	9.8855215	175	9.9207329	428	0.0792671	0	12
	30	9.8063302	253	9.8854689	176	9.9208613	428	0.0791387	30	
49	0	9.8064060	252	9.8854162	175	9.9209898	428	0.0790102	0	11
	30	9.8064817	253	9.8853636	176	9.9211182	428	0.0788818	30	
50	0	9.8065575	252	9.8853109	176	9.9212466	428	0.0787534	0	10
	30	9.8066332	252	9.8852582	176	9.9213750	428	0.0786250	30	
51	0	9.8067090	252	9.8852055	176	9.9215034	428	0.0784966	0	9
	30	9.8067846	252	9.8851527	175	9.9216318	428	0.0783682	30	
52	0	9.8068602	252	9.8851000	176	9.9217602	428	0.0782398	0	8
	30	9.8069358	252	9.8850472	175	9.9218886	428	0.0781114	30	
53	0	9.8070114	252	9.8849945	176	9.9220170	428	0.0779830	0	7
	30	9.8070870	252	9.8849417	176	9.9221453	428	0.0778547	30	
54	0	9.8071626	251	9.8848889	176	9.9222737	428	0.0777263	0	6
	30	9.8072381	252	9.8848360	176	9.9224020	428	0.0775980	30	
55	0	9.8073136	252	9.8847832	176	9.9225304	428	0.0774696	0	5
	30	9.8073891	252	9.8847304	177	9.9226587	428	0.0773413	30	
56	0	9.8074646	251	9.8846775	176	9.9227871	428	0.0772129	0	4
	30	9.8075400	252	9.8846246	176	9.9229154	428	0.0770846	30	
57	0	9.8076154	252	9.8845717	176	9.9230437	428	0.0769563	0	3
	30	9.8076908	252	9.8845188	177	9.9231720	428	0.0768280	30	
58	0	9.8077662	251	9.8844659	177	9.9233004	427	0.0766996	0	2
	30	9.8078416	251	9.8844129	176	9.9234287	427	0.0765713	30	
59	0	9.8079169	251	9.8843599	176	9.9235570	427	0.0764430	0	1
	30	9.8079922	251	9.8843070	177	9.9236852	428	0.0763148	30	
60	0	9.8080675*		9.8842540		9.9238135		0.0761865	0	0
			10"		10"		10"			
	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

50 deg.

40 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
0	o	9.8080675	251	9.8842540	177	9.9238135	428	0.0761865	o	60
	30	9.8081428	250	9.8842010	177	9.9239418	428	0.0760582	30	
1	o	9.8082150	251	9.8841479	176	9.9240701	427	0.0759299	o	59
	30	9.8082932	251	9.8840949	177	9.9241983	428	0.0758017	30	
2	o	9.8083684	251	9.8840418	177	9.9243266	427	0.0756734	o	58
	30	9.8084436	251	9.8839888	177	9.9244548	428	0.0755452	30	
3	o	9.8085188	250	9.8839357	177	9.9245831	427	0.0754169	o	57
	30	9.8085939	250	9.8838826	177	9.9247113	428	0.0752887	30	
4	o	9.8086690	250	9.8838294	177	9.9248396	427	0.0751604	o	56
	30	9.8087441	250	9.8837763	177	9.9249678	427	0.0750322	30	
5	o	9.8088192	250	9.8837232	178	9.9250960	427	0.0749040	o	55
	30	9.8088942	250	9.8836700	177	9.9252242	428	0.0747758	30	
6	o	9.8089692	250	9.8836168	177	9.9253524	428	0.0746476	o	54
	30	9.8090442	250	9.8835636	177	9.9254806	427	0.0745194	30	
7	o	9.8091192	250	9.8835104	177	9.9256088	427	0.0743912	o	53
	30	9.8091942	249	9.8834572	178	9.9257370	427	0.0742630	30	
8	o	9.8092691	250	9.8834039	177	9.9258652	427	0.0741348	o	52
	30	9.8093440	250	9.8833507	178	9.9259933	428	0.0740067	30	
9	o	9.8094189	250	9.8832974	178	9.9261215	427	0.0738785	o	51
	30	9.8094938	249	9.8832441	178	9.9262497	427	0.0737503	30	
10	o	9.8095686	250	9.8831908	178	9.9263778	427	0.0736222	o	50
	30	9.8096434	250	9.8831375	178	9.9265060	427	0.0734940	30	
11	o	9.8097182	250	9.8830841	178	9.9266341	427	0.0733659	o	49
	30	9.8097930	249	9.8830308	178	9.9267623	427	0.0732377	30	
12	o	9.8098678	249	9.8829774	178	9.9268904	427	0.0731096	o	48
	30	9.8099425	249	9.8829240	178	9.9270185	427	0.0729815	30	
13	o	9.8100172	249	9.8828706	178	9.9271466	427	0.0728533	o	47
	30	9.8100919	249	9.8828172	178	9.9272747	427	0.0727253	30	
14	o	9.8101666	249	9.8827638	179	9.9274028	427	0.0725972	o	46
	30	9.8102412	249	9.8827103	178	9.9275309	427	0.0724691	30	
15	o	9.8103159	248	9.8826568	178	9.9276590	427	0.0723410	o	45
	30	9.8103905	248	9.8826034	179	9.9277871	427	0.0722129	30	
16	o	9.8104650	249	9.8825499	179	9.9279152	427	0.0720848	o	44
	30	9.8105396	249	9.8824963	178	9.9280433	426	0.0719567	30	
17	o	9.8106141	249	9.8824428	178	9.9281713	427	0.0718287	o	43
	30	9.8106887	248	9.8823893	179	9.9282994	427	0.0717005	30	
18	o	9.8107631	249	9.8823357	179	9.9284274	427	0.0715725	o	42
	30	9.8108376	248	9.8822821	178	9.9285555	427	0.0714445	30	
19	o	9.8109121	248	9.8822285	178	9.9286835	427	0.0713165	o	41
	30	9.8109865	248	9.8821749	178	9.9288116	426	0.0711884	30	
20	o	9.8110609	248	9.8821213	179	9.9289396	427	0.0710604	o	40
	30	9.8111353	248	9.8820677	179	9.9290676	427	0.0709324	30	
21	o	9.8112096	248	9.8820140	179	9.9291956	427	0.0708044	o	39
	30	9.8112840	248	9.8819603	178	9.9293236	427	0.0706764	30	
22	o	9.8113583	248	9.8819067	179	9.9294516	427	0.0705484	o	38
	30	9.8114326	248	9.8818530	179	9.9295796	427	0.0704204	30	
23	o	9.8115069	247	9.8817992	179	9.9297076	427	0.0702924	o	37
	30	9.8115811	248	9.8817455	179	9.9298356	427	0.0701644	30	
24	o	9.8116554	247	9.8816918	180	9.9299636	427	0.0700364	o	36
	30	9.8117296	247	9.8816380	179	9.9300916	426	0.0699084	30	
25	o	9.8118038	247	9.8815842	179	9.9302195	427	0.0697805	o	35
	30	9.8118779	247	9.8815304	179	9.9303475	427	0.0696525	30	
26	o	9.8119521	247	9.8814766	179	9.9304755	426	0.0695245	o	34
	30	9.8120262	247	9.8814228	180	9.9306034	427	0.0693966	30	
27	o	9.8121003	247	9.8813689	179	9.9307314	426	0.0692686	o	33
	30	9.8121744	246	9.8813151	180	9.9308593	426	0.0691407	30	
28	o	9.8122484	247	9.8812612	180	9.9309872	427	0.0690128	o	32
	30	9.8123224	247	9.8812073	180	9.9311152	426	0.0688848	30	
29	o	9.8123965	246	9.8811534	180	9.9312431	426	0.0687569	o	31
	30	9.8124704	247	9.8810995	180	9.9313710	426	0.0686290	30	
30	o	9.8125444		9.8810455		9.9314989		0.0685011	o	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

49 deg.

23\*

40 deg.

'	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
30	0	9.8125444	247	9.8810455	180	9.9314989	426	0.0685011	0	30
	30	9.8126184	246	9.8809916	180	9.9316268	426	0.0683732	30	
31	0	9.8126923	246	9.8809376	180	9.9317547	426	0.0682453	0	29
	30	9.8127662	245	9.8808836	180	9.9318826	426	0.0681174	30	
32	0	9.8128401	246	9.8808296	180	9.9320105	426	0.0679895	0	28
	30	9.8129139	246	9.8807756	180	9.9321384	426	0.0678616	30	
33	0	9.8129878	246	9.8807215	180	9.9322662	427	0.0677338	0	27
	30	9.8130616	246	9.8806675	180	9.9323941	426	0.0676059	30	
34	0	9.8131354	246	9.8806134	180	9.9325220	426	0.0674780	0	26
	30	9.8132092	245	9.8805593	180	9.9326498	426	0.0673502	30	
35	0	9.8132829	246	9.8805052	180	9.9327777	426	0.0672223	0	25
	30	9.8133566	246	9.8804511	180	9.9329055	426	0.0670945	30	
36	0	9.8134303	246	9.8803970	180	9.9330334	426	0.0669666	0	24
	30	9.8135040	245	9.8803428	181	9.9331612	426	0.0668388	30	
37	0	9.8135777	246	9.8802887	181	9.9332890	426	0.0667110	0	23
	30	9.8136513	245	9.8802345	181	9.9334168	426	0.0665832	30	
38	0	9.8137250	245	9.8801803	181	9.9335446	427	0.0664554	0	22
	30	9.8137986	245	9.8801261	181	9.9336725	426	0.0663275	30	
39	0	9.8138721	245	9.8800719	181	9.9338003	426	0.0661997	0	21
	30	9.8139457	245	9.8800176	181	9.9339281	426	0.0660719	30	
40	0	9.8140192	245	9.8799634	181	9.9340559	426	0.0659441	0	20
	30	9.8140927	245	9.8799091	181	9.9341836	426	0.0658164	30	
41	0	9.8141662	245	9.8798548	181	9.9343114	426	0.0656886	0	19
	30	9.8142397	245	9.8798005	181	9.9344392	426	0.0655608	30	
42	0	9.8143131	245	9.8797462	181	9.9345670	426	0.0654330	0	18
	30	9.8143866	244	9.8796918	181	9.9346947	426	0.0653053	30	
43	0	9.8144600	244	9.8796375	181	9.9348225	426	0.0651775	0	17
	30	9.8145334	244	9.8795831	181	9.9349502	426	0.0650498	30	
44	0	9.8146067	245	9.8795287	181	9.9350780	426	0.0649220	0	16
	30	9.8146801	244	9.8794743	181	9.9352057	426	0.0647943	30	
45	0	9.8147534	244	9.8794199	182	9.9353335	426	0.0646665	0	15
	30	9.8148267	244	9.8793655	182	9.9354612	426	0.0645388	30	
46	0	9.8148999	245	9.8793110	181	9.9355889	426	0.0644111	0	14
	30	9.8149732	244	9.8792565	181	9.9357167	425	0.0642833	30	
47	0	9.8150464	244	9.8792021	182	9.9358444	425	0.0641556	0	13
	30	9.8151196	244	9.8791476	182	9.9359721	425	0.0640279	30	
48	0	9.8151928	244	9.8790930	181	9.9360998	425	0.0639002	0	22
	30	9.8152660	244	9.8790385	182	9.9362275	425	0.0637725	30	
49	0	9.8153391	244	9.8789840	182	9.9363552	425	0.0636448	0	11
	30	9.8154123	243	9.8789294	182	9.9364829	425	0.0635171	30	
50	0	9.8154854	243	9.8788748	182	9.9366105	426	0.0633895	0	10
	30	9.8155584	244	9.8788202	182	9.9367382	426	0.0632618	30	
51	0	9.8156315	244	9.8787656	182	9.9368659	425	0.0631341	0	9
	30	9.8157045	244	9.8787110	182	9.9369936	425	0.0630064	30	
52	0	9.8157776	243	9.8786563	182	9.9371212	426	0.0628788	0	8
	30	9.8158506	243	9.8786017	182	9.9372489	425	0.0627511	30	
53	0	9.8159235	244	9.8785470	182	9.9373765	426	0.0626235	0	7
	30	9.8159965	243	9.8784923	182	9.9375042	425	0.0624958	30	
54	0	9.8160694	243	9.8784376	182	9.9376318	425	0.0623682	0	6
	30	9.8161423	243	9.8783829	183	9.9377594	426	0.0622406	30	
55	0	9.8162152	243	9.8783281	182	9.9378871	425	0.0621129	0	5
	30	9.8162881	243	9.8782734	183	9.9380147	425	0.0619853	30	
56	0	9.8163609	243	9.8782186	183	9.9381423	425	0.0618577	0	4
	30	9.8164337	243	9.8781638	182	9.9382699	426	0.0617301	30	
57	0	9.8165066	242	9.8781090	182	9.9383975	426	0.0616025	0	3
	30	9.8165793	243	9.8780542	183	9.9385251	426	0.0614749	30	
58	0	9.8166521	242	9.8779994	183	9.9386527	426	0.0613473	0	2
	30	9.8167248	242	9.8779445	183	9.9387803	425	0.0612197	30	
59	0	9.8167975	243	9.8778896	183	9.9389079	425	0.0610921	0	1
	30	9.8168702	243	9.8778348	183	9.9390355	425	0.0609645	30	
60	0	9.8169429		9.8777799		9.9391631		0.0608369	0	0
		10"			10"		10"			
'	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	'

49 deg.



41 deg.

°	'	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	'	°
0	0	9.8169429	242	9.8777799	183	9.9391631	425	0.0608369	0	60
	30	9.8170156	242	9.8777249	183	9.9392906	425	0.0607094	30	
1	0	9.8170882	242	9.8776700	183	9.9394182	425	0.0605818	0	59
	30	9.8171608	242	9.8776151	184	9.9395457	426	0.0604543	30	
2	0	9.8172334	242	9.8775601	183	9.9396733	425	0.0603267	0	58
	30	9.8173060	242	9.8775051	183	9.9398009	425	0.0601991	30	
3	0	9.8173785	242	9.8774501	183	9.9399284	425	0.0600716	0	57
	30	9.8174510	242	9.8773951	183	9.9400559	425	0.0599441	30	
4	0	9.8175235	242	9.8773401	184	9.9401835	425	0.0598165	0	56
	30	9.8175960	242	9.8772850	183	9.9403110	425	0.0596890	30	
5	0	9.8176685	241	9.8772300	184	9.9404385	425	0.0595615	0	55
	30	9.8177409	242	9.8771749	184	9.9405660	425	0.0594340	30	
6	0	9.8178133	242	9.8771198	184	9.9406936	425	0.0593064	0	54
	30	9.8178857	242	9.8770647	184	9.9408211	425	0.0591789	30	
7	0	9.8179581	241	9.8770096	184	9.9409486	425	0.0590514	0	53
	30	9.8180305	241	9.8769544	184	9.9410761	425	0.0589239	30	
8	0	9.8181028	241	9.8768993	184	9.9412036	425	0.0587964	0	52
	30	9.8181751	241	9.8768441	184	9.9413310	425	0.0586689	30	
9	0	9.8182475	241	9.8767889	184	9.9414585	425	0.0585415	0	51
	30	9.8183197	241	9.8767337	184	9.9415860	425	0.0584140	30	
10	0	9.8183919	241	9.8766785	185	9.9417135	425	0.0582865	0	50
	30	9.8184642	240	9.8766232	184	9.9418409	425	0.0581591	30	
11	0	9.8185364	240	9.8765680	185	9.9419684	425	0.0580316	0	49
	30	9.8186086	240	9.8765127	184	9.9420959	425	0.0579041	30	
12	0	9.8186807	241	9.8764574	184	9.9422233	425	0.0577767	0	48
	30	9.8187529	240	9.8764021	185	9.9423508	425	0.0576492	30	
13	0	9.8188250	240	9.8763468	185	9.9424782	425	0.0575218	0	47
	30	9.8188971	240	9.8762914	184	9.9426057	424	0.0573943	30	
14	0	9.8189693	240	9.8762361	185	9.9427331	425	0.0572669	0	46
	30	9.8190412	240	9.8761807	185	9.9428605	425	0.0571395	30	
15	0	9.8191133	240	9.8761253	184	9.9429879	425	0.0570121	0	45
	30	9.8191853	240	9.8760699	185	9.9431154	424	0.0568846	30	
16	0	9.8192573	240	9.8760145	185	9.9432428	424	0.0567572	0	44
	30	9.8193292	240	9.8759591	185	9.9433702	424	0.0566298	30	
17	0	9.8194012	240	9.8759036	185	9.9434976	425	0.0565024	0	43
	30	9.8194731	240	9.8758481	185	9.9436250	424	0.0563750	30	
18	0	9.8195450	240	9.8757927	185	9.9437524	424	0.0562476	0	42
	30	9.8196169	240	9.8757372	185	9.9438798	424	0.0561202	30	
19	0	9.8196888	239	9.8756816	185	9.9440072	424	0.0559928	0	41
	30	9.8197605	240	9.8756261	185	9.9441346	425	0.0558655	30	
20	0	9.8198325	239	9.8755706	186	9.9442619	425	0.0557381	0	40
	30	9.8199043	239	9.8755150	185	9.9443893	424	0.0556107	30	
21	0	9.8199761	239	9.8754594	185	9.9445166	425	0.0554834	0	39
	30	9.8200478	239	9.8754038	185	9.9446440	425	0.0553560	30	
22	0	9.8201196	239	9.8753482	185	9.9447714	424	0.0552286	0	38
	30	9.8201913	239	9.8752926	186	9.9448987	425	0.0551013	30	
23	0	9.8202630	239	9.8752369	185	9.9450261	424	0.0549739	0	37
	30	9.8203347	238	9.8751813	186	9.9451534	424	0.0548466	30	
24	0	9.8204063	239	9.8751256	186	9.9452807	425	0.0547193	0	36
	30	9.8204780	238	9.8750699	186	9.9454081	424	0.0545919	30	
25	0	9.8205496	238	9.8750142	186	9.9455354	424	0.0544646	0	35
	30	9.8206212	238	9.8749584	185	9.9456627	425	0.0543373	30	
26	0	9.8206927	239	9.8749027	186	9.9457900	425	0.0542100	0	34
	30	9.8207643	238	9.8748469	186	9.9459174	424	0.0540826	30	
27	0	9.8208358	239	9.8747912	186	9.9460447	424	0.0539553	0	33
	30	9.8209073	239	9.8747354	186	9.9461720	424	0.0538280	30	
28	0	9.8209788	238	9.8746795	186	9.9462993	424	0.0537007	0	32
	30	9.8210503	238	9.8746237	186	9.9464266	424	0.0535734	30	
29	0	9.8211217	238	9.8745679	186	9.9465539	424	0.0534461	0	31
	30	9.8211932	238	9.8745120	186	9.9466811	425	0.0533189	30	
30	0	9.8212646		9.8744561		9.9468084		0.0531916	0	30
		10''		10''		10''				
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

48 deg.

41 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	'
30	0	9.8212646	238	9.8744561	186	9.9468084	425	0.0531916	0	30
	30	9.8213360	237	9.8744003	187	9.9465357	424	0.0530643	0	30
31	0	9.8214073	238	9.8743443	186	9.9470630	424	0.0529370	0	29
	30	9.8214787	237	9.8742884	186	9.9471902	425	0.0528098	0	30
32	0	9.8215500	238	9.8742325	187	9.9473175	424	0.0526825	0	28
	30	9.8216213	238	9.8741765	186	9.9474448	424	0.0525552	0	30
33	0	9.8216926	237	9.8741205	186	9.9475720	424	0.0524280	0	27
	30	9.8217638	238	9.8740646	187	9.9476993	424	0.0523007	0	30
34	0	9.8218351	237	9.8740085	186	9.9478265	424	0.0521735	0	26
	30	9.8219063	237	9.8739525	187	9.9479538	424	0.0520462	0	30
35	0	9.8219775	237	9.8738965	187	9.9480810	424	0.0519190	0	25
	30	9.8220487	237	9.8738404	187	9.9482082	424	0.0517918	0	30
36	0	9.8221198	237	9.8737844	187	9.9483355	424	0.0516645	0	24
	30	9.8221910	237	9.8737283	187	9.9484627	424	0.0515373	0	30
37	0	9.8222621	237	9.8736722	187	9.9485899	424	0.0514101	0	23
	30	9.8223332	237	9.8736160	187	9.9487171	424	0.0512829	0	30
38	0	9.8224042	237	9.8735599	187	9.9488443	424	0.0511557	0	22
	30	9.8224753	237	9.8735037	187	9.9489715	424	0.0510285	0	30
39	0	9.8225463	237	9.8734476	188	9.9490987	424	0.0509013	0	21
	30	9.8226173	237	9.8733914	188	9.9492259	424	0.0507741	0	30
40	0	9.8226883	237	9.8733352	188	9.9493531	424	0.0506469	0	20
	30	9.8227593	236	9.8732790	188	9.9494803	424	0.0505197	0	30
41	0	9.8228302	237	9.8732227	187	9.9496075	424	0.0503925	0	19
	30	9.8229012	236	9.8731665	188	9.9497347	424	0.0502653	0	30
42	0	9.8229721	236	9.8731102	188	9.9498619	424	0.0501381	0	18
	30	9.8230429	237	9.8730539	188	9.9499890	424	0.0500108	0	30
43	0	9.8231138	236	9.8729976	188	9.9501162	424	0.0498838	0	17
	30	9.8231847	236	9.8729413	188	9.9502434	424	0.0497566	0	30
44	0	9.8232555	236	9.8728849	187	9.9503705	424	0.0496295	0	16
	30	9.8233263	236	9.8728286	188	9.9504977	424	0.0495023	0	30
45	0	9.8233971	235	9.8727722	188	9.9506248	424	0.0493752	0	15
	30	9.8234678	236	9.8727158	188	9.9507520	424	0.0492480	0	30
46	0	9.8235386	235	9.8726594	188	9.9508791	424	0.0491209	0	14
	30	9.8236093	235	9.8726030	188	9.9510063	424	0.0489937	0	30
47	0	9.8236800	235	9.8725466	188	9.9511334	424	0.0488666	0	13
	30	9.8237507	235	9.8724901	183	9.9512605	424	0.0487395	0	30
48	0	9.8238213	236	9.8724337	189	9.9513876	424	0.0486124	0	12
	30	9.8238919	236	9.8723772	189	9.9515148	423	0.0484852	0	30
49	0	9.8239626	235	9.8723207	189	9.9516419	424	0.0483581	0	11
	30	9.8240332	235	9.8722642	189	9.9517690	424	0.0482310	0	30
50	0	9.8241037	236	9.8722076	188	9.9518961	424	0.0481039	0	10
	30	9.8241743	235	9.8721511	189	9.9520232	424	0.0479768	0	30
51	0	9.8242448	235	9.8720945	189	9.9521503	424	0.0478497	0	9
	30	9.8243153	235	9.8720379	188	9.9522774	424	0.0477226	0	30
52	0	9.8243858	235	9.8719813	188	9.9524045	424	0.0475955	0	8
	30	9.8244563	235	9.8719247	189	9.9525316	424	0.0474684	0	30
53	0	9.8245267	235	9.8718681	189	9.9526587	423	0.0473413	0	7
	30	9.8245972	234	9.8718114	189	9.9527858	423	0.0472142	0	30
54	0	9.8246676	235	9.8717548	189	9.9529128	424	0.0470871	0	6
	30	9.8247380	234	9.8716981	189	9.9530399	424	0.0469600	0	30
55	0	9.8248083	235	9.8716414	189	9.9531670	423	0.0468330	0	5
	30	9.8248787	234	9.8715847	190	9.9532940	424	0.0467060	0	30
56	0	9.8249490	235	9.8715279	189	9.9534211	423	0.0465789	0	4
	30	9.8250193	235	9.8714712	189	9.9535482	423	0.0464518	0	30
57	0	9.8250896	234	9.8714144	189	9.9536752	424	0.0463248	0	3
	30	9.8251597	234	9.8713576	189	9.9538023	423	0.0461977	0	30
58	0	9.8252301	234	9.8713008	189	9.9539293	423	0.0460707	0	2
	30	9.8253003	234	9.8712440	189	9.9540563	424	0.0459437	0	30
59	0	9.8253705	234	9.8711872	190	9.9541834	423	0.0458166	0	1
	30	9.8254407	234	9.8711303	189	9.9543104	424	0.0456896	0	30
60	0	9.8255109		9.8710735		9.9544374		0.0455626	0	0
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

48 deg.

## 42 deg.

'	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	"	'
0	0	9.8255109	234	9.8710735	190	9.9544374	424	0.0455626	0	60
	30	9.8255810	234	9.8710166	190	9.9545645	423	0.0454355	30	
1	0	9.8256512	233	9.8709597	190	9.9546915	423	0.0453085	0	59
	30	9.8257213	233	9.8709028	190	9.9548185	423	0.0451815	30	
2	0	9.8257913	234	9.8708458	190	9.9549455	424	0.0450545	0	58
	30	9.8258614	234	9.8707889	190	9.9550725	424	0.0449275	30	
3	0	9.8259314	234	9.8707319	190	9.9551995	424	0.0448005	0	57
	30	9.8260015	233	9.8706749	190	9.9553265	424	0.0446735	30	
4	0	9.8260715	233	9.8706179	190	9.9554535	424	0.0445465	0	56
	30	9.8261414	234	9.8705609	190	9.9555805	424	0.0444195	30	
5	0	9.8262114	233	9.8705039	190	9.9557075	423	0.0442925	0	55
	30	9.8262813	233	9.8704468	190	9.9558345	423	0.0441655	30	
6	0	9.8263512	234	9.8703898	191	9.9559615	423	0.0440385	0	54
	30	9.8264211	233	9.8703327	190	9.9560885	423	0.0439115	30	
7	0	9.8264910	233	9.8702756	191	9.9562154	424	0.0437846	0	53
	30	9.8265609	233	9.8702185	191	9.9563424	423	0.0436576	30	
8	0	9.8266307	233	9.8701613	190	9.9564694	423	0.0435306	0	52
	30	9.8267005	233	9.8701042	191	9.9565963	424	0.0434037	30	
9	0	9.8267703	233	9.8700470	190	9.9567233	423	0.0432767	0	51
	30	9.8268401	232	9.8699898	190	9.9568503	423	0.0431497	30	
10	0	9.8269098	233	9.8699326	190	9.9569772	423	0.0430228	0	50
	30	9.8269796	232	9.8698754	191	9.9571042	423	0.0428958	30	
11	0	9.8270493	232	9.8698182	191	9.9572311	423	0.0427689	0	49
	30	9.8271190	232	9.8697609	191	9.9573581	423	0.0426419	30	
12	0	9.8271887	232	9.8697037	191	9.9574850	423	0.0425150	0	48
	30	9.8272583	232	9.8696464	191	9.9576119	423	0.0423881	30	
13	0	9.8273279	232	9.8695891	191	9.9577389	423	0.0422611	0	47
	30	9.8273976	232	9.8695318	191	9.9578658	423	0.0421342	30	
14	0	9.8274671	232	9.8694744	191	9.9579927	423	0.0420072	0	46
	30	9.8275367	232	9.8694171	191	9.9581196	423	0.0418804	30	
15	0	9.8276063	231	9.8693597	191	9.9582465	424	0.0417535	0	45
	30	9.8276758	232	9.8693023	191	9.9583735	423	0.0416265	30	
16	0	9.8277453	232	9.8692449	191	9.9585004	423	0.0414996	0	44
	30	9.8278148	232	9.8691875	191	9.9586273	423	0.0413727	30	
17	0	9.8278843	231	9.8691301	192	9.9587542	423	0.0412458	0	43
	30	9.8279537	232	9.8690726	191	9.9588811	423	0.0411189	30	
18	0	9.8280231	232	9.8690152	192	9.9590080	423	0.0409920	0	42
	30	9.8280925	232	9.8689577	192	9.9591349	423	0.0408651	30	
19	0	9.8281619	231	9.8689002	192	9.9592618	423	0.0407382	0	41
	30	9.8282313	231	9.8688427	192	9.9593886	423	0.0406114	30	
20	0	9.8283006	232	9.8687851	192	9.9595155	423	0.0404845	0	40
	30	9.8283700	231	9.8687276	192	9.9596424	423	0.0403576	30	
21	0	9.8284393	231	9.8686700	192	9.9597693	423	0.0402307	0	39
	30	9.8285086	231	9.8686124	192	9.9598962	422	0.0401038	30	
22	0	9.8285778	231	9.8685548	192	9.9600230	423	0.0399770	0	38
	30	9.8286471	231	9.8684972	192	9.9601499	423	0.0398501	30	
23	0	9.8287163	231	9.8684396	193	9.9602767	423	0.0397233	0	37
	30	9.8287855	231	9.8683819	192	9.9604036	423	0.0395964	30	
24	0	9.8288547	231	9.8683242	192	9.9605305	422	0.0394695	0	36
	30	9.8289239	230	9.8682665	192	9.9606573	423	0.0393427	30	
25	0	9.8289930	231	9.8682088	192	9.9607842	422	0.0392158	0	35
	30	9.8290621	231	9.8681511	192	9.9609110	423	0.0390890	30	
26	0	9.8291312	231	9.8680934	193	9.9610378	423	0.0389622	0	34
	30	9.8292003	230	9.8680356	193	9.9611647	423	0.0388353	30	
27	0	9.8292694	230	9.8679779	193	9.9612915	423	0.0387085	0	33
	30	9.8293384	230	9.8679201	193	9.9614184	422	0.0385816	30	
28	0	9.8294075	230	9.8678623	193	9.9615452	423	0.0384548	0	32
	30	9.8294765	230	9.8678045	193	9.9616720	423	0.0383280	30	
29	0	9.8295454	230	9.8677466	193	9.9617988	423	0.0382012	0	31
	30	9.8296144	230	9.8676888	193	9.9619256	423	0.0380744	30	
30	0	9.8296833		9.8676309		9.9620525		0.0379475	0	30
'	"	l. cosin.	dif. 10"	l. sin.	d. 10"	l. cotan.	dif. 10"	l. tang.	"	'

## 47 deg.

42 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	'	°
30	0	9.8296833	230	9.8676309	193	9.9620525	422	0.0379475	0	30
	30	9.8297523	229	9.8675730	193	9.9621793	422	0.0378207	30	
31	0	9.8298212	229	9.8675151	193	9.9623061	423	0.0376939	0	29
	30	9.8298901	229	9.8674572	193	9.9624329	423	0.0375671	30	
32	0	9.8299589	230	9.8673992	193	9.9625597	423	0.0374403	0	28
	30	9.8300278	229	9.8673413	194	9.9626865	423	0.0373135	30	
33	0	9.8300966	229	9.8672833	193	9.9628133	423	0.0371867	0	27
	30	9.8301654	229	9.8672253	193	9.9629401	422	0.0370599	30	
34	0	9.8302342	229	9.8671673	193	9.9630669	422	0.0369331	0	26
	30	9.8303029	229	9.8671093	194	9.9631937	422	0.0368063	30	
35	0	9.8303717	229	9.8670512	193	9.9633204	423	0.0366796	0	25
	30	9.8304404	229	9.8669932	194	9.9634472	423	0.0365528	30	
36	0	9.8305091	229	9.8669351	193	9.9635740	423	0.0364260	0	24
	30	9.8305778	229	9.8668770	194	9.9637008	422	0.0363092	30	
37	0	9.8306464	229	9.8668189	194	9.9638275	423	0.0361725	0	23
	30	9.8307151	229	9.8667608	194	9.9639543	423	0.0360457	30	
38	0	9.8307837	229	9.8667026	194	9.9640811	422	0.0359189	0	22
	30	9.8312635	229	9.8666445	194	9.9642078	423	0.0357922	30	
39	0	9.8309209	228	9.8665863	194	9.9643346	422	0.0356654	0	21
	30	9.8309894	229	9.8665281	194	9.9644614	422	0.0355386	30	
40	0	9.8310580	228	9.8664699	194	9.9645881	423	0.0354119	0	20
	30	9.8311265	228	9.8664117	195	9.9647149	422	0.0352851	30	
41	0	9.8311950	228	9.8663534	194	9.9648416	422	0.0351584	0	19
	30	9.8312635	228	9.8662952	195	9.9649683	423	0.0350317	30	
42	0	9.8313320	228	9.8662369	195	9.9650951	422	0.0349049	0	18
	30	9.8314004	228	9.8661786	195	9.9652218	423	0.0347782	30	
43	0	9.8314688	228	9.8661203	195	9.9653486	422	0.0346514	0	17
	30	9.8315372	228	9.8660619	194	9.9654753	422	0.0345247	30	
44	0	9.8316056	228	9.8660036	195	9.9656020	423	0.0343980	0	16
	30	9.8316740	228	9.8659452	194	9.9657287	423	0.0342713	30	
45	0	9.8317423	228	9.8658868	194	9.9658555	422	0.0341445	0	15
	30	9.8318106	228	9.8658284	194	9.9659822	422	0.0340178	30	
46	0	9.8318789	228	9.8657700	194	9.9661089	422	0.0338911	0	14
	30	9.8319472	228	9.8657116	194	9.9662356	423	0.0337644	30	
47	0	9.8320155	227	9.8656531	195	9.9663623	423	0.0336377	0	13
	30	9.8320837	228	9.8655947	195	9.9664890	423	0.0335110	30	
48	0	9.8321519	228	9.8655362	195	9.9666157	423	0.0333843	0	12
	30	9.8322201	228	9.8654777	195	9.9667425	422	0.0332575	30	
49	0	9.8322883	228	9.8654192	195	9.9668692	422	0.0331308	0	11
	30	9.8323565	227	9.8653606	195	9.9669958	423	0.0330042	30	
50	0	9.8324246	227	9.8653021	195	9.9671225	423	0.0328775	0	10
	30	9.8324928	227	9.8652435	195	9.9672492	423	0.0327508	30	
51	0	9.8325609	227	9.8651849	195	9.9673759	423	0.0326241	0	9
	30	9.8326290	227	9.8651263	195	9.9675026	422	0.0324974	30	
52	0	9.8326970	227	9.8650677	195	9.9676293	422	0.0323707	0	8
	30	9.8327651	226	9.8650091	196	9.9677560	422	0.0322440	30	
53	0	9.8328331	226	9.8649504	195	9.9678827	422	0.0321173	0	7
	30	9.8329011	226	9.8648918	196	9.9680093	423	0.0319907	30	
54	0	9.8329691	226	9.8648331	196	9.9681360	422	0.0318640	0	6
	30	9.8330370	227	9.8647744	196	9.9682627	422	0.0317373	30	
55	0	9.8331050	226	9.8647156	195	9.9683893	423	0.0316107	0	5
	30	9.8331729	226	9.8646569	196	9.9685160	422	0.0314840	30	
56	0	9.8332408	226	9.8645981	196	9.9686427	422	0.0313573	0	4
	30	9.8333087	226	9.8645394	196	9.9687693	422	0.0312307	30	
57	0	9.8333766	226	9.8644806	196	9.9688960	422	0.0311040	0	3
	30	9.8334444	226	9.8644218	196	9.9690226	423	0.0309774	30	
58	0	9.8335122	226	9.8643629	196	9.9691493	422	0.0308507	0	2
	30	9.8335800	226	9.8643041	196	9.9692759	423	0.0307241	30	
59	0	9.8336478	226	9.8642452	196	9.9694026	422	0.0305974	0	1
	30	9.8337156	226	9.8641864	197	9.9695292	422	0.0304708	30	
60	0	9.8337833		9.8641275		9.9696559		0.0303441	0	0
			10"		10"		10"			
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

47 deg.



## 43 deg.

°	'	l. sin.	diff. 10''	l. cosin.	d. 10''	l. tang.	diff. 10''	l. cotan.	'	°
0	0	9.8337833	226	9.8641275	197	9.5596559	422	0.0303441	0	60
	30	9.8338511	225	9.8640686	197	9.5597825	422	0.0302175	30	
1	0	9.8339188	225	9.8640096	196	9.5599091	423	0.0300909	0	59
	30	9.8339865	225	9.8639507	197	9.5600358	422	0.0299642	30	
2	0	9.8340541	226	9.8638917	196	9.5601624	422	0.0298376	0	58
	30	9.8341218	225	9.8638327	196	9.5602890	422	0.0297110	30	
3	0	9.8341894	225	9.8637737	196	9.5604157	422	0.0295843	0	57
	30	9.8342570	225	9.8637147	196	9.5605423	422	0.0294577	30	
4	0	9.8343246	225	9.8636557	197	9.5606689	422	0.0293311	0	56
	30	9.8343922	225	9.8635966	196	9.5607955	422	0.0292045	30	
5	0	9.8344597	225	9.8635376	197	9.5609221	422	0.0290779	0	55
	30	9.8345272	225	9.8634785	197	9.5610487	423	0.0289513	30	
6	0	9.8345948	225	9.8634194	197	9.5611754	422	0.0288246	0	54
	30	9.8346622	225	9.8633603	197	9.5613020	422	0.0286980	30	
7	0	9.8347297	225	9.8633011	197	9.5614286	422	0.0285714	0	53
	30	9.8347972	224	9.8632420	197	9.5615552	422	0.0284448	30	
8	0	9.8348646	225	9.8631828	197	9.5616818	422	0.0283182	0	52
	30	9.8349320	225	9.8631236	197	9.5618084	422	0.0281916	30	
9	0	9.8349994	225	9.8630644	197	9.5619350	422	0.0280650	0	51
	30	9.8350668	224	9.8630052	197	9.5620616	422	0.0279384	30	
10	0	9.8351341	225	9.8629460	198	9.5621882	422	0.0278118	0	50
	30	9.8352015	224	9.8628867	197	9.5623147	422	0.0276853	30	
11	0	9.8352688	224	9.8628274	197	9.5624413	422	0.0275587	0	49
	30	9.8353361	224	9.8627681	197	9.5625679	422	0.0274321	30	
12	0	9.8354033	225	9.8627088	197	9.5626945	422	0.0273055	0	48
	30	9.8354706	224	9.8626495	198	9.5628211	422	0.0271789	30	
13	0	9.8355378	224	9.8625902	198	9.5629477	421	0.0270523	0	47
	30	9.8356050	224	9.8625308	198	9.5630742	421	0.0269258	30	
14	0	9.8356722	224	9.8624714	198	9.5632008	422	0.0267992	0	46
	30	9.8357394	224	9.8624120	198	9.5633274	422	0.0266726	30	
15	0	9.8358066	224	9.8623526	198	9.5634539	422	0.0265461	0	45
	30	9.8358737	224	9.8622932	198	9.5635805	422	0.0264195	30	
16	0	9.8359408	224	9.8622338	199	9.5637071	422	0.0262929	0	44
	30	9.8360079	224	9.8621743	198	9.5638336	422	0.0261664	30	
17	0	9.8360750	224	9.8621148	198	9.5639602	422	0.0260398	0	43
	30	9.8361421	223	9.8620553	198	9.5640868	421	0.0259132	30	
18	0	9.8362091	223	9.8619958	198	9.5642133	422	0.0257867	0	42
	30	9.8362761	224	9.8619363	199	9.5643399	421	0.0256601	30	
19	0	9.8363431	224	9.8618767	198	9.5644664	422	0.0255336	0	41
	30	9.8364101	223	9.8618171	198	9.5645930	421	0.0254070	30	
20	0	9.8364771	223	9.8617576	199	9.5647195	422	0.0252805	0	40
	30	9.8365440	223	9.8616980	199	9.5648461	421	0.0251539	30	
21	0	9.8366109	223	9.8616383	198	9.5649726	422	0.0250274	0	39
	30	9.8366778	223	9.8615787	199	9.5650991	422	0.0249009	30	
22	0	9.8367447	223	9.8615190	198	9.5652257	421	0.0247743	0	38
	30	9.8368116	223	9.8614594	199	9.5653522	422	0.0246478	30	
23	0	9.8368784	223	9.8613997	199	9.5654787	422	0.0245213	0	37
	30	9.8369452	223	9.8613400	199	9.5656053	421	0.0243947	30	
24	0	9.8370121	222	9.8612803	200	9.5657318	422	0.0242682	0	36
	30	9.8370788	223	9.8612205	199	9.5658583	422	0.0241417	30	
25	0	9.8371456	223	9.8611608	200	9.5659849	421	0.0240151	0	35
	30	9.8372124	222	9.8611010	200	9.5661114	422	0.0238886	30	
26	0	9.8372791	222	9.8610412	200	9.5662379	422	0.0237621	0	34
	30	9.8373458	222	9.8609814	200	9.5663644	422	0.0236356	30	
27	0	9.8374125	222	9.8609215	199	9.5664909	422	0.0235091	0	33
	30	9.8374791	223	9.8608617	200	9.5666174	422	0.0233826	30	
28	0	9.8375458	222	9.8608018	199	9.5667440	421	0.0232560	0	32
	30	9.8376124	222	9.8607420	200	9.5668705	421	0.0231295	30	
29	0	9.8376790	222	9.8606821	200	9.5670070	422	0.0230030	0	31
	30	9.8377456	222	9.8606221	199	9.5671235	422	0.0228765	30	
30	0	9.8378122		9.8605622		9.5672500		0.0227500	0	30
°	'	l. cosin.	diff. 10''	l. sin.	d. 10''	l. cotan.	diff. 10''	l. tang.	'	°

## 46 deg.

43 deg.

'	''	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	''	'
30	0	9.8378122	222	9.8605622	200	9.9772500	422	0.0227500	0	30
	30	9.8378788	221	9.8605023	200	9.9773765	422	0.0226235	30	
31	0	9.8379453	222	9.8604423	200	9.9775030	422	0.0224970	0	29
	30	9.8380118	222	9.8603823	200	9.9776295	422	0.0223705	30	
32	0	9.8380783	222	9.8603223	200	9.9777560	422	0.0222440	0	28
	30	9.8381448	221	9.8602623	200	9.9778825	422	0.0221175	30	
33	0	9.8382112	222	9.8602022	200	9.9780090	422	0.0219910	0	27
	30	9.8382777	221	9.8601422	200	9.9781355	421	0.0218645	30	
34	0	9.8383441	221	9.8600821	200	9.9782620	421	0.0217380	0	26
	30	9.8384105	221	9.8600220	200	9.9783885	421	0.0216115	30	
35	0	9.8384769	221	9.8599619	200	9.9785149	422	0.0214851	0	25
	30	9.8385432	221	9.8599018	201	9.9786414	422	0.0213586	30	
36	0	9.8386096	221	9.8598416	200	9.9787679	422	0.0212321	0	24
	30	9.8386759	221	9.8597815	201	9.9788944	422	0.0211056	30	
37	0	9.8387422	221	9.8597213	201	9.9790209	421	0.0209791	0	23
	30	9.8388085	221	9.8596611	201	9.9791474	421	0.0208526	30	
38	0	9.8388747	221	9.8596009	201	9.9792738	422	0.0207262	0	22
	30	9.8389410	220	9.8595407	201	9.9794003	422	0.0205997	30	
39	0	9.8390072	221	9.8594804	201	9.9795268	421	0.0204732	0	21
	30	9.8390734	221	9.8594202	201	9.9796532	422	0.0203468	30	
40	0	9.8391396	220	9.8593599	201	9.9797797	422	0.0202203	0	20
	30	9.8392058	220	9.8592996	201	9.9799062	421	0.0200938	30	
41	0	9.8392719	220	9.8592393	202	9.9800326	422	0.0199674	0	19
	30	9.8393380	221	9.8591789	201	9.9801591	422	0.0198409	30	
42	0	9.8394041	221	9.8591186	202	9.9802856	421	0.0197144	0	18
	30	9.8394702	221	9.8590582	201	9.9804120	422	0.0195880	30	
43	0	9.8395363	220	9.8589978	201	9.9805385	421	0.0194615	0	17
	30	9.8396023	221	9.8589374	201	9.9806650	421	0.0193350	30	
44	0	9.8396684	220	9.8588770	202	9.9807914	422	0.0192086	0	16
	30	9.8397344	220	9.8588165	201	9.9809179	421	0.0190821	30	
45	0	9.8398004	220	9.8587561	202	9.9810443	422	0.0189557	0	15
	30	9.8398664	219	9.8586956	202	9.9811708	421	0.0188292	30	
46	0	9.8399323	220	9.8586351	202	9.9812972	422	0.0187028	0	14
	30	9.8399982	220	9.8585746	202	9.9814237	421	0.0185764	30	
47	0	9.8400642	219	9.8585141	202	9.9815501	422	0.0184499	0	13
	30	9.8401301	219	9.8584535	202	9.9816766	421	0.0183234	30	
48	0	9.8401959	220	9.8583929	201	9.9818030	421	0.0181970	0	12
	30	9.8402618	219	9.8583324	202	9.9819294	422	0.0180706	30	
49	0	9.8403276	220	9.8582718	202	9.9820559	421	0.0179441	0	11
	30	9.8403935	219	9.8582111	202	9.9821823	422	0.0178177	30	
50	0	9.8404593	219	9.8581505	202	9.9823087	422	0.0176913	0	10
	30	9.8405250	220	9.8580899	203	9.9824352	421	0.0175648	30	
51	0	9.8405908	219	9.8580292	202	9.9825616	422	0.0174384	0	9
	30	9.8406565	220	9.8579685	202	9.9826881	421	0.0173119	30	
52	0	9.8407223	219	9.8579078	202	9.9828145	421	0.0171855	0	8
	30	9.8407880	219	9.8578471	203	9.9829409	422	0.0170591	30	
53	0	9.8408537	219	9.8577863	202	9.9830673	422	0.0169327	0	7
	30	9.8409193	219	9.8577256	203	9.9831938	421	0.0168062	30	
54	0	9.8409850	219	9.8576648	203	9.9833202	421	0.0166798	0	6
	30	9.8410506	219	9.8576040	203	9.9834466	422	0.0165534	30	
55	0	9.8411162	219	9.8575432	203	9.9835730	422	0.0164270	0	5
	30	9.8411818	219	9.8574824	203	9.9836995	421	0.0163005	30	
56	0	9.8412474	218	9.8574215	203	9.9838259	421	0.0161741	0	4
	30	9.8413129	219	9.8573606	202	9.9839523	421	0.0160477	30	
57	0	9.8413785	218	9.8572998	203	9.9840787	421	0.0159213	0	3
	30	9.8414440	218	9.8572389	203	9.9842051	422	0.0157949	30	
58	0	9.8415095	218	9.8571779	203	9.9843315	422	0.0156685	0	2
	30	9.8415750	218	9.8571170	203	9.9844580	421	0.0155420	30	
59	0	9.8416404	218	9.8570561	204	9.9845844	421	0.0154156	0	1
	30	9.8417059	218	9.8569951	203	9.9847108	421	0.0152892	30	
60	0	9.8417713		9.8569341		9.9848372		0.0151628	0	0
'	''	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	''	'

46 deg.

44 deg.

"	'	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	'	"
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
0	0	9.8417713	218	9.8559341	203	9.9848372	421	0.0151628	0	60
30	0	9.8418367	218	9.8559731	204	9.9849536	421	0.0150364	30	
1	0	9.8419021	217	9.8560121	204	9.9850700	421	0.0149100	0	59
30	0	9.8419674	218	9.8560510	203	9.9852164	421	0.0147836	30	
2	0	9.8420328	217	9.8560900	204	9.9853428	481	0.0146572	0	58
30	0	9.8420981	218	9.8561289	204	9.9854692	421	0.0145308	30	
3	0	9.8421634	218	9.8561678	204	9.9855955	421	0.0144044	0	57
30	0	9.8422287	218	9.8562067	204	9.9857220	421	0.0142780	30	
4	0	9.8422939	217	9.8562455	204	9.9858484	421	0.0141516	0	56
30	0	9.8423592	217	9.8562844	203	9.9859748	421	0.0140252	30	
5	0	9.8424244	218	9.8563232	204	9.9861012	421	0.0138988	0	55
30	0	9.8424896	218	9.8563620	204	9.9862276	421	0.0137724	30	
6	0	9.8425548	217	9.8564008	204	9.9863540	421	0.0136460	0	54
30	0	9.8426200	217	9.8564396	204	9.9864804	421	0.0135196	30	
7	0	9.8426851	218	9.8564784	204	9.9866068	421	0.0133932	0	53
30	0	9.8427503	217	9.8565171	204	9.9867332	421	0.0132668	30	
8	0	9.8428154	217	9.8565558	204	9.9868596	421	0.0131404	0	52
30	0	9.8428805	217	9.8565945	204	9.9869859	422	0.0130141	30	
9	0	9.8429456	217	9.8566332	204	9.9871123	422	0.0128877	0	51
30	0	9.8430106	217	9.8566719	204	9.9872387	421	0.0127613	30	
10	0	9.8430757	216	9.8567105	205	9.9873651	421	0.0126349	0	50
30	0	9.8431407	217	9.8567492	205	9.9874915	421	0.0125085	30	
11	0	9.8432057	217	9.8567878	204	9.9876179	421	0.0123821	0	49
30	0	9.8432707	216	9.8568264	204	9.9877443	421	0.0122557	30	
12	0	9.8433356	217	9.8568650	205	9.9878707	422	0.0121294	0	48
30	0	9.8434006	216	9.8569036	205	9.9879970	421	0.0120030	30	
13	0	9.8434655	216	9.8569421	205	9.9881234	421	0.0118766	0	47
30	0	9.8435304	217	9.8569806	204	9.9882498	421	0.0117502	30	
14	0	9.8435953	216	9.8570192	205	9.9883761	422	0.0116239	0	46
30	0	9.8436602	216	9.8570577	206	9.9885025	421	0.0114975	30	
15	0	9.8437250	216	9.8570961	205	9.9886289	421	0.0113711	0	45
30	0	9.8437897	216	9.8571346	205	9.9887553	421	0.0112447	30	
16	0	9.8438547	216	9.8571730	205	9.9888816	422	0.0111184	0	44
30	0	9.8439195	216	9.8572114	205	9.9890080	421	0.0109920	30	
17	0	9.8439844	216	9.8572499	206	9.9891344	421	0.0108656	0	43
30	0	9.8440490	216	9.8572882	205	9.9892608	421	0.0107392	30	
18	0	9.8441137	216	9.8573266	205	9.9893871	422	0.0106129	0	42
30	0	9.8441785	216	9.8573650	205	9.9895135	422	0.0104865	30	
19	0	9.8442432	215	9.8574033	206	9.9896399	421	0.0103601	0	41
30	0	9.8443078	216	9.8574416	206	9.9897662	422	0.0102338	30	
20	0	9.8443725	215	9.8574799	206	9.9898926	421	0.0101074	0	40
30	0	9.8444371	216	9.8575182	206	9.9900190	421	0.0099810	30	
21	0	9.8445018	215	9.8575564	205	9.9901453	421	0.0098547	0	39
30	0	9.8445664	215	9.8575947	206	9.9902717	421	0.0097283	30	
22	0	9.8446310	215	9.8576329	206	9.9903981	421	0.0096019	0	38
30	0	9.8446955	215	9.8576711	205	9.9905244	421	0.0094756	30	
23	0	9.8447601	215	9.8577093	206	9.9906508	421	0.0093492	0	37
30	0	9.8448246	215	9.8577475	206	9.9907771	422	0.0092229	30	
24	0	9.8448891	215	9.8577856	206	9.9909035	421	0.0090965	0	36
30	0	9.8449536	215	9.8578238	207	9.9910299	421	0.0089701	30	
25	0	9.8450181	215	9.8578619	207	9.9911562	421	0.0088438	0	35
30	0	9.8450825	215	9.8578999	207	9.9912826	421	0.0087174	30	
26	0	9.8451470	215	9.8579381	207	9.9914089	421	0.0085911	0	34
30	0	9.8452114	215	9.8579761	206	9.9915353	421	0.0084647	30	
27	0	9.8452758	215	9.8580142	207	9.9916616	422	0.0083384	0	33
30	0	9.8453402	214	9.8580522	207	9.9917880	421	0.0082120	30	
28	0	9.8454045	215	9.8580902	207	9.9919143	422	0.0080857	0	32
30	0	9.8454689	214	9.8581282	207	9.9920407	421	0.0079593	30	
29	0	9.8455332	214	9.8581662	207	9.9921670	422	0.0078330	0	31
30	0	9.8455975	214	9.8582041	207	9.9922934	421	0.0077066	30	
30	0	9.8456618	214	9.8582421	207	9.9924197	421	0.0075803	0	30
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
"	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'

45 deg.

44 deg.

/	//	l. sin.	dif. 10''	l. cosin.	d. 10''	l. tang.	dif. 10''	l. cotan.	//	/
30	o	9.8456618	214	9.8532421	207	9.9924197	422	0.0075803	o	30
	30	9.8457261	214	9.8531830	207	9.9925461	421	0.0074539	30	
31	o	9.8457903	214	9.8531179	207	9.9926724	422	0.0073276	o	29
	30	9.8458545	215	9.8530558	208	9.9927988	421	0.0072012	30	
32	c	9.8459188	214	9.8529936	207	9.9929251	422	0.0070749	o	28
	30	9.8459830	213	9.8529315	208	9.9930515	421	0.0069485	30	
33	o	9.8460471	214	9.8528693	207	9.9931778	422	0.0068222	o	27
	30	9.8461113	214	9.8528071	207	9.9933042	421	0.0066958	30	
34	o	9.8461754	214	9.8527449	207	9.9934305	421	0.0065695	o	26
	30	9.8462395	214	9.8526827	208	9.9935569	421	0.0064431	30	
35	o	9.8463036	214	9.8526204	207	9.9936832	421	0.0063168	o	25
	30	9.8463677	214	9.8525582	208	9.9938096	421	0.0061904	30	
36	o	9.8464318	213	9.8524959	208	9.9939359	421	0.0060641	o	24
	30	9.8464958	214	9.8524336	208	9.9940623	421	0.0059377	30	
37	o	9.8465599	213	9.8523713	208	9.9941886	421	0.0058114	o	23
	30	9.8466239	213	9.8523089	208	9.9943149	422	0.0056851	30	
38	o	9.8466879	213	9.8522466	208	9.9944413	421	0.0055587	o	22
	30	9.8467518	213	9.8521842	208	9.9945676	421	0.0054324	30	
39	o	9.8468158	213	9.8521218	208	9.9946940	421	0.0053060	o	21
	30	9.8468797	213	9.8520594	208	9.9948203	421	0.0051797	30	
40	o	9.8469436	213	9.8519970	208	9.9949466	422	0.0050534	o	20
	30	9.8470075	213	9.8519345	208	9.9950730	421	0.0049270	30	
41	o	9.8470714	213	9.8518721	208	9.9951993	421	0.0048007	o	19
	30	9.8471353	212	9.8518096	208	9.9953257	421	0.0046743	30	
42	o	9.8471991	213	9.8517471	208	9.9954520	421	0.0045480	o	18
	30	9.8472629	213	9.8516846	209	9.9955783	421	0.0044217	30	
43	o	9.8473267	213	9.8516220	208	9.9957047	421	0.0042953	o	17
	30	9.8473905	213	9.8515595	209	9.9958310	421	0.0041690	30	
44	o	9.8474543	212	9.8514969	208	9.9959573	422	0.0040427	o	16
	30	9.8475180	213	9.8514343	208	9.9960837	421	0.0039163	30	
45	o	9.8475817	213	9.8513717	209	9.9962100	421	0.0037900	o	15
	30	9.8476455	212	9.8513091	208	9.9963364	421	0.0036636	30	
46	o	9.8477091	213	9.8512465	209	9.9964627	421	0.0035373	o	14
	30	9.8477728	212	9.8511838	209	9.9965890	421	0.0034110	30	
47	o	9.8478365	212	9.8511211	209	9.9967154	421	0.0032846	o	13
	30	9.8479001	212	9.8510584	209	9.9968417	421	0.0031583	30	
48	o	9.8479637	212	9.8509957	209	9.9969680	421	0.0030320	o	12
	30	9.8480273	212	9.8509330	209	9.9970944	421	0.0029056	30	
49	o	9.8480909	212	9.8508702	210	9.9972207	421	0.0027793	o	11
	30	9.8481545	211	9.8508074	209	9.9973470	421	0.0026530	30	
50	o	9.8482180	212	9.8507446	209	9.9974734	421	0.0025266	o	10
	30	9.8482815	212	9.8506818	209	9.9975997	421	0.0024003	30	
51	o	9.8483450	212	9.8506190	209	9.9977260	421	0.0022740	o	9
	30	9.8484085	212	9.8505562	210	9.9978524	421	0.0021476	30	
52	o	9.8484720	211	9.8504933	210	9.9979787	421	0.0020213	o	8
	30	9.8485354	212	9.8504304	209	9.9981050	421	0.0018950	30	
53	o	9.8485989	211	9.8503675	209	9.9982314	421	0.0017686	o	7
	30	9.8486623	211	9.8503046	210	9.9983577	421	0.0016423	30	
54	o	9.8487257	211	9.8502417	210	9.9984840	421	0.0015160	o	6
	30	9.8487891	211	9.8501787	210	9.9986104	421	0.0013896	30	
55	o	9.8488524	211	9.8501157	210	9.9987367	421	0.0012633	o	5
	30	9.8489158	211	9.8500527	210	9.9988630	421	0.0011370	30	
56	o	9.8489791	211	9.8499897	210	9.9989893	422	0.0010107	o	4
	30	9.8490424	211	9.8499267	210	9.9991157	421	0.0008843	30	
57	o	9.8491057	211	9.8498637	210	9.9992420	421	0.0007580	o	3
	30	9.8491689	211	9.8498006	210	9.9993683	422	0.0006317	30	
58	o	9.8492322	211	9.8497375	210	9.9994947	421	0.0005053	o	2
	30	9.8492954	211	9.8496744	210	9.9996210	421	0.0003790	30	
59	o	9.8493586	211	9.8496113	210	9.9997473	421	0.0002527	o	1
	30	9.8494218	211	9.8495482	211	9.9998737	421	0.0001263	30	
60	o	9.8494850		9.8494850		0.0000000		0.0000000	o	0
/	//	l. cosin.	dif. 10''	l. sin.	d. 10''	l. cotan.	dif. 10''	l. tang.	//	/

45 deg.



# SINUS NATURALES

AD TRICENAS SECUNDAS.

---

# NATURAL SINES

TO EVERY THIRTY SECONDS.

---

# SINUS NATURELS

DE TRENTÉ EN TRENTÉ SECONDES.

---

# NATUERLICHE SINUSSE

ZU JE DREISSIG SECUNDEN.

---

# SENOS NATURALES

PARA CADA 30''

0 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,0000000	484,8	1,0000000	0,0	60'	0,0087265	484,8	0,9999619	30'
30'	0,0001455		1,0000000	0,0	30'	0,0093720		0,9999606	4,2 30'
1'	0,0002909		1,0000000	0,1	50'	0,010174		0,9999593	4,3 29'
30'	0,0004363		0,9999999	0,2	30'	0,0091628		0,9999580	4,4 30'
2'	0,0005818		0,9999998	0,3	50'	0,0093083		0,9999567	28'
30'	0,0007272		0,9999997	30'	30'	0,0094538		0,9999553	4,5 30'
3'	0,0008727		0,9999996	57'	30'	0,0095992		0,9999539	4,6 27'
30'	0,0010182		0,9999994	0,4	30'	0,0097446		0,9999525	4,7 30'
4'	0,0011636		0,9999993	0,5	56'	0,0098900		0,9999511	26'
30'	0,0013090		0,9999991	0,6	30'	0,0100355		0,9999497	4,8 30'
5'	0,0014544		0,9999989	0,7	35'	0,0101809		0,9999482	25'
30'	0,0015999		0,9999987	0,8	30'	0,0103263		0,9999467	4,9 30'
6'	0,0017453		0,9999985	51'	36'	0,0104718		0,9999452	5,0 24'
30'	0,0018907		0,9999982	0,9	30'	0,0106173		0,9999437	5,1 30'
7'	0,0020362		0,9999979	1,0	53'	0,0107627		0,9999421	23'
30'	0,0021816		0,9999976	30'	30'	0,0109081		0,9999405	5,2 30'
8'	0,0023271		0,9999973	52'	38'	0,0110535		0,9999389	5,3 22'
30'	0,0024725		0,9999970	1,1	30'	0,0111989		0,9999373	5,4 30'
9'	0,0026180		0,9999966	1,2	51'	0,0113444		0,9999357	21'
30'	0,0027635		0,9999962	1,3	30'	0,0114899		0,9999340	5,5 30'
10'	0,0029089		0,9999958	1,4	50'	0,0116353		0,9999324	20'
30'	0,0030543		0,9999954	1,5	30'	0,0117807		0,9999306	5,6 30'
11'	0,0031998		0,9999949	1,6	49'	0,0119261		0,9999289	5,7 19'
30'	0,0033453		0,9999944	1,6	30'	0,0120716		0,9999271	30'
12'	0,0034907		0,9999939	1,7	48'	0,0122170		0,9999254	18'
30'	0,0036361		0,9999933	30'	30'	0,0123624		0,9999236	5,9 30'
13'	0,0037815		0,9999928	1,8	47'	0,0125079		0,9999218	6,0 17'
30'	0,0039270		0,9999923	1,9	30'	0,0126533		0,9999200	30'
14'	0,0040724		0,9999917	2,0	46'	0,0127987		0,9999181	16'
30'	0,0042178		0,9999911	2,0	30'	0,0129442		0,9999162	6,2 30'
15'	0,0043633		0,9999905	2,1	45'	0,0130896		0,9999143	15'
30'	0,0045088		0,9999899	2,2	30'	0,0132350		0,9999124	6,4 30'
16'	0,0046542		0,9999892	2,3	44'	0,0133805		0,9999105	14'
30'	0,0047996		0,9999885	2,3	30'	0,0135259		0,9999085	6,5 30'
17'	0,0049451		0,9999878	2,4	43'	0,0136713		0,9999065	13'
30'	0,0050905		0,9999870	30'	30'	0,0138168		0,9999045	6,6 30'
18'	0,0052360		0,9999863	2,5	42'	0,0139622		0,9999025	6,7 12'
30'	0,0053814		0,9999855	2,6	30'	0,0141076		0,9999005	6,8 30'
19'	0,0055268		0,9999847	2,7	41'	0,0142530		0,9998985	11'
30'	0,0056723		0,9999839	2,7	30'	0,0143985		0,9998963	6,9 30'
20'	0,0058177		0,9999831	2,8	40'	0,0145439		0,9998942	7,1 10'
30'	0,0059631		0,9999822	2,9	30'	0,0146893		0,9998921	30'
21'	0,0061086		0,9999813	3,0	30'	0,0148348		0,9998900	9'
30'	0,0062541		0,9999804	3,0	30'	0,0149802		0,9998878	7,2 30'
22'	0,0063995		0,9999795	3,1	38'	0,0151256		0,9998856	8'
30'	0,0065449		0,9999786	3,2	30'	0,0152711		0,9998834	7,3 30'
30'	0,0066904		0,9999776	3,3	37'	0,0154165		0,9998812	7,4 30'
30'	0,0068359		0,9999766	3,3	30'	0,0155619		0,9998789	7,5 30'
24'	0,0069813		0,9999756	3,4	36'	0,0157073		0,9998766	6,6 30'
30'	0,0071267		0,9999746	3,4	30'	0,0158528		0,9998743	7,6 30'
25'	0,0072721		0,9999736	3,5	35'	0,0159982		0,9998720	7,7 30'
30'	0,0074176		0,9999725	3,6	30'	0,0161436		0,9998696	7,8 30'
26'	0,0075630		0,9999714	3,7	34'	0,0162890		0,9998673	4'
30'	0,0077085		0,9999703	3,7	30'	0,0164344		0,9998650	7,9 30'
27'	0,0078539		0,9999692	3,8	33'	0,0165799		0,9998625	3'
30'	0,0079993		0,9999680	3,9	30'	0,0167253		0,9998601	8,0 30'
28'	0,0081448		0,9999668	4,0	32'	0,0168707		0,9998577	8,1 2'
30'	0,0082903		0,9999656	4,0	30'	0,0170162		0,9998552	30'
29'	0,0084357		0,9999644	4,1	31'	0,0171616		0,9998527	1'
30'	0,0085811		0,9999632	4,1	30'	0,0173070		0,9998502	30'
30'	0,0087265	484,8	0,9999619	30'	60'	0,0174524	484,7	0,9998477	0'
	co-sin.	diff. 10''	sin.	diff. 10''		co-sin.	diff. 10''	sin.	diff. 10''

89 deg.

1 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,0174524	484,8 484,7	0,9998477		30'	0,0261769	484,6	0,9996573		30'
36	0,0175978		0,9998451	8,5	36	0,0263223		0,9996535	12,7	36
1	0,0177432		0,9998426	59'	31'	0,0264677		0,9996497	12,8	29'
36	0,0178886		0,9998400	8,6	36	0,0266131		0,9996458	12,9	36
2'	0,0180341		0,9998374	8,7	58'	0,0267585		0,9996419	13,0	28'
36	0,0181795		0,9998347	8,8	36	0,0269039		0,9996380		36
3'	0,0183249		0,9998321	57'	33'	0,0270493		0,9996341	13,1	27'
36	0,0184704		0,9998294	8,9	36	0,0271947		0,9996302	13,2	36
4'	0,0186158		0,9998267	56'	34'	0,0273401		0,9996262	13,3	26'
36	0,0187612		0,9998240	9,0	36	0,0274855		0,9996222	13,3	36
5'	0,0189066		0,9998213	9,1	55'	0,0276309		0,9996182	13,4	25'
36	0,0190520		0,9998185	9,2	36	0,0277762		0,9996141	13,4	36
6'	0,0191974		0,9998157	54'	36'	0,0279216		0,9996101	13,5	24'
36	0,0193428		0,9998129	9,3	36	0,0280670		0,9996061	13,5	36
7'	0,0194883		0,9998101	9,4	53'	0,0282124		0,9996020	13,6	23'
				9,5					13,7	
36	0,0196337		0,9998072	36	36	0,0283578		0,9995978		36
8'	0,0197791		0,9998044	50'	38'	0,0285032		0,9995937	13,8	22'
36	0,0199245		0,9998015	9,6	36	0,0286486		0,9995896	13,9	36
9'	0,0200699		0,9997986	51'	39'	0,0287940		0,9995854	14,0	21'
36	0,0202153		0,9997957	9,7	36	0,0289394		0,9995812		36
10'	0,0203608		0,9997927	9,8	50'	0,0290847		0,9995770	14,1	20'
36	0,0205062		0,9997897	9,9	36	0,0292301		0,9995727	14,2	36
11'	0,0206516		0,9997867	49'	41'	0,0293755		0,9995684	14,3	19'
36	0,0207970		0,9997837	10,0	36	0,0295208		0,9995641	14,3	36
12'	0,0209424		0,9997807	10,1	48'	0,0296662		0,9995599	14,4	15'
				10,2						
36	0,0210878		0,9997775	36	36	0,0298116		0,9995556		36
13'	0,0212332		0,9997745	10,1	47'	0,0299570		0,9995512	14,5	17'
36	0,0213787		0,9997714	10,3	36	0,0301024		0,9995468	14,5	36
14'	0,0215241		0,9997683	46'	44'	0,0302478		0,9995424	14,6	16'
36	0,0216695		0,9997652	10,4	36	0,0303931		0,9995380	14,7	36
15'	0,0218149		0,9997620	10,5	45'	0,0305385		0,9995336	14,8	15'
36	0,0219603		0,9997588	10,6	36	0,0306839		0,9995292	14,9	36
16'	0,0221057		0,9997556	44'	46'	0,0308293		0,9995247	15,0	14'
36	0,0222511		0,9997524	10,7	36	0,0309746		0,9995202		36
17'	0,0223965		0,9997492	10,8	43'	0,0311200		0,9995157	15,1	13'
				10,9						
36	0,0225419		0,9997459	36	36	0,0312654		0,9995111	15,1	36
18'	0,0226873		0,9997426	42'	43'	0,0314108		0,9995066	15,2	12'
36	0,0228327		0,9997393	11,0	36	0,0315562		0,9995020	15,2	36
19'	0,0229781		0,9997360	41'	46'	0,0317015		0,9994974	15,3	11'
36	0,0231235		0,9997326	11,1	36	0,0318468		0,9994927	15,4	36
20'	0,0232689		0,9997292	11,2	40'	0,0319922		0,9994881	15,5	10'
36	0,0234144		0,9997258	11,3	36	0,0321376		0,9994835	15,6	36
21'	0,0235598		0,9997224	39'	51'	0,0322830		0,9994788	15,7	9'
36	0,0237052		0,9997190	11,4	36	0,0324283		0,9994740	15,8	8'
22'	0,0238506		0,9997155	11,5	38'	0,0325737		0,9994693		
				11,6						
36	0,0239960		0,9997120	36	36	0,0327191		0,9994646		36
23'	0,0241414		0,9997086	37'	53'	0,0328644		0,9994599	15,9	7'
36	0,0242868		0,9997051	11,7	36	0,0330098		0,9994553	16,0	36
24'	0,0244322		0,9997015	36'	54'	0,0331552		0,9994506	16,1	6'
36	0,0245776		0,9996979	11,9	36	0,0333005		0,9994459		36
25'	0,0247230		0,9996943	35'	55'	0,0334459		0,9994412	16,2	5'
36	0,0248684	484,7 484,6	0,9996907	12,0	36	0,0335913		0,9994365	16,3	36
26'	0,0250138		0,9996871	34'	56'	0,0337366		0,9994318	16,4	4'
36	0,0251592		0,9996834	12,1	36	0,0338820		0,9994271	16,4	36
27'	0,0253046		0,9996798	33'	57'	0,0340274		0,9994224		36
36	0,0254500		0,9996761	12,3	36	0,0341727		0,9994176	16,5	36
28'	0,0255954		0,9996724	32'	58'	0,0343181		0,9994110	16,6	2'
36	0,0257408		0,9996687	12,4	36	0,0344635		0,9994063	16,7	36
29'	0,0258862		0,9996649	31'	59'	0,0346088		0,9994016	16,8	1'
36	0,0260316		0,9996611	12,6	36	0,0347541		0,9993969		36
30'	0,0261769	484,6	0,9996573	30'	60'	0,0348995	484,5	0,9993922		0'
	co-sin.	diff. 10''	sin.	diff. 10''		co-sin.	diff. 10''	sin.	diff. 10''	

2 deg.

	sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'	
0'	0,0348995	484,5	0,9993903	16,9	60'	30'	0,0436194	484,3	0,9990482	21,2	30'
30'	0,0350448		0,9993857	17,0	30'	30'	0,0437647		0,9990418	21,3	30'
1'	0,0351902		0,9993806	17,1	59'	31'	0,0439100		0,9990355	21,4	29'
30'	0,0353356		0,9993755	17,2	58'	32'	0,0440553		0,9990291	21,5	28'
2'	0,0354809		0,9993704	17,3	57'	33'	0,0442006		0,9990227	21,6	27'
30'	0,0356263	484,4	0,9993652	17,4	56'	34'	0,0443459	484,2	0,9990163	21,7	26'
3'	0,0357716		0,9993600	17,5	55'	35'	0,0444912		0,9990098	21,8	25'
30'	0,0359170		0,9993547	17,6	54'	36'	0,0446365		0,9989933	21,9	24'
4'	0,0360623		0,9993495	17,7	53'	37'	0,0447818		0,9989768	22,0	23'
30'	0,0362076		0,9993442	17,8	52'	38'	0,0449271		0,9989603	22,1	22'
5'	0,0363530	484,5	0,9993390	17,9	51'	39'	0,0450724	484,1	0,9989437	22,2	21'
30'	0,0364983		0,9993337	18,0	50'	40'	0,0452177		0,9989271	22,3	20'
6'	0,0366437		0,9993284	18,1	49'	41'	0,0453630		0,9989105	22,4	19'
30'	0,0367891		0,9993230	18,2	48'	42'	0,0455083		0,9988939	22,5	18'
7'	0,0369344		0,9993177	18,3	47'	43'	0,0456536		0,9988773	22,6	17'
30'	0,0370797	484,6	0,9993123	18,4	46'	44'	0,0457989	484,0	0,9988607	22,7	16'
8'	0,0372251		0,9993069	18,5	45'	45'	0,0459442		0,9988441	22,8	15'
30'	0,0373705		0,9993014	18,6	44'	46'	0,0460895		0,9988275	22,9	14'
9'	0,0375158		0,9992960	18,7	43'	47'	0,0462347		0,9988109	23,0	13'
30'	0,0376611		0,9992906	18,8	42'	48'	0,0463800		0,9987943	23,1	12'
10'	0,0378065	484,7	0,9992851	18,9	41'	49'	0,0465253	483,9	0,9987777	23,2	11'
30'	0,0379518		0,9992797	19,0	40'	50'	0,0466706		0,9987611	23,3	10'
11'	0,0380971		0,9992742	19,1	39'	51'	0,0468159		0,9987445	23,4	9'
30'	0,0382424		0,9992688	19,2	38'	52'	0,0469612		0,9987279	23,5	8'
12'	0,0383877		0,9992634	19,3	37'	53'	0,0471065		0,9987113	23,6	7'
30'	0,0385332	484,8	0,9992579	19,4	36'	54'	0,0472517	483,8	0,9986947	23,7	6'
13'	0,0386785		0,9992525	19,5	35'	55'	0,0473970		0,9986781	23,8	5'
30'	0,0388238		0,9992470	19,6	34'	56'	0,0475423		0,9986615	23,9	4'
14'	0,0389692		0,9992416	19,7	33'	57'	0,0476876		0,9986449	24,0	3'
30'	0,0391145		0,9992361	19,8	32'	58'	0,0478329		0,9986283	24,1	2'
15'	0,0392598	484,9	0,9992307	19,9	31'	59'	0,0479782	483,7	0,9986117	24,2	1'
30'	0,0394052		0,9992253	20,0	30'	60'	0,0481235		0,9985951	24,3	0'
16'	0,0395505		0,9992198	20,1	29'	31'	0,0482688		0,9985785	24,4	30'
30'	0,0396958		0,9992144	20,2	28'	32'	0,0484141		0,9985619	24,5	29'
17'	0,0398411		0,9992089	20,3	27'	33'	0,0485594		0,9985453	24,6	28'
30'	0,0399864	485,0	0,9992035	20,4	26'	34'	0,0487047	483,6	0,9985287	24,7	27'
18'	0,0401318		0,9991980	20,5	25'	35'	0,0488500		0,9985121	24,8	26'
30'	0,0402771		0,9991926	20,6	24'	36'	0,0489953		0,9984955	24,9	25'
19'	0,0404224		0,9991871	20,7	23'	37'	0,0491406		0,9984789	25,0	24'
30'	0,0405677		0,9991817	20,8	22'	38'	0,0492859		0,9984623	25,1	23'
20'	0,0407131	485,1	0,9991762	20,9	21'	39'	0,0494312	483,5	0,9984457	25,2	22'
30'	0,0408584		0,9991708	21,0	20'	40'	0,0495765		0,9984291	25,3	21'
21'	0,0410037		0,9991653	21,1	19'	41'	0,0497218		0,9984125	25,4	20'
30'	0,0411490		0,9991599	21,2	18'	42'	0,0498671		0,9983959	25,5	19'
22'	0,0412944		0,9991544	21,3	17'	43'	0,0500124		0,9983793	25,6	18'
30'	0,0414397	485,2	0,9991489	21,4	16'	44'	0,0501577	483,4	0,9983627	25,7	17'
23'	0,0415850		0,9991435	21,5	15'	45'	0,0503030		0,9983461	25,8	16'
30'	0,0417304		0,9991380	21,6	14'	46'	0,0504483		0,9983295	25,9	15'
24'	0,0418757		0,9991326	21,7	13'	47'	0,0505936		0,9983129	26,0	14'
30'	0,0420210		0,9991271	21,8	12'	48'	0,0507389		0,9982963	26,1	13'
25'	0,0421663	485,3	0,9991217	21,9	11'	49'	0,0508842	483,3	0,9982797	26,2	12'
30'	0,0423116		0,9991162	22,0	10'	50'	0,0510295		0,9982631	26,3	11'
26'	0,0424569		0,9991108	22,1	9'	51'	0,0511748		0,9982465	26,4	10'
30'	0,0426022		0,9991053	22,2	8'	52'	0,0513201		0,9982299	26,5	9'
27'	0,0427475		0,9990999	22,3	7'	53'	0,0514654		0,9982133	26,6	8'
30'	0,0428928	485,4	0,9990944	22,4	6'	54'	0,0516107	483,2	0,9981967	26,7	7'
28'	0,0430382		0,9990889	22,5	5'	55'	0,0517560		0,9981801	26,8	6'
30'	0,0431835		0,9990835	22,6	4'	56'	0,0519013		0,9981635	26,9	5'
29'	0,0433288		0,9990780	22,7	3'	57'	0,0520466		0,9981469	27,0	4'
30'	0,0434741		0,9990726	22,8	2'	58'	0,0521919		0,9981303	27,1	3'
30'	0,0436194	485,5	0,9990671	22,9	1'	59'	0,0523372	483,1	0,9981137	27,2	0'
	co-sin.	10'	sin.	10'			co-sin.	10'	sin.	10'	

87 deg.



3 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0	0,0523360	484,1	0,9986295	25,4	60'	0,0610485	483,9	0,9981348	29,6	30'	
30	0,0524812		0,9986219	30'	30'	0,0611377		0,9981259	29,7	30'	
1	0,0526264		0,9986143	25,5	59'	0,0613389		0,9981170	29,7	29'	
30	0,0527716		0,9986066	25,6	30'	0,0614841		0,9981081	29,8	30'	
2	0,0529169		0,9985989	25,7	58'	0,0616292		0,9980991	29,8	28'	
30	0,0530622		0,9985912	30'	30'	0,0617744		0,9980901	29,9	30'	
3	0,0532074		0,9985835	25,8	57'	0,0619196		0,9980811	29,9	27'	
30	0,0533526		0,9985758	25,9	30'	0,0620648		0,9980721	30,0	30'	
4	0,0534977		0,9985680	25,9	56'	0,0622099		0,9980631	30,1	26'	
30	0,0536431		0,9985602	26,0	30'	0,0623550		0,9980540	30,2	30'	
5	0,0537883		0,9985524	26,0	55'	0,0625002	483,8	0,9980450	30,3	25'	
30	0,0539336		0,9985445	26,1	30'	0,0626454		0,9980359	30,4	30'	
6	0,0540788		0,9985367	26,2	54'	0,0627905		0,9980269	30,5	24'	
30	0,0542241		0,9985288	26,3	30'	0,0629356		0,9980175	30,6	30'	
7	0,0543693		0,9985209	26,4	53'	0,0630808		0,9980084	30,7	23'	
30	0,0545145		0,9985130	26,5	30'	0,0632260		0,9979992	30,8	30'	
8	0,0546597		0,9985050	26,5	52'	0,0633711		0,9979900	30,9	22'	
30	0,0548049		0,9984971	26,6	30'	0,0635163		0,9979808	31,0	30'	
9	0,0549502		0,9984891	26,6	51'	0,0636614		0,9979716	31,1	21'	
30	0,0550954		0,9984811	26,7	30'	0,0638065		0,9979623	31,2	30'	
10	0,0552406	484,0	0,9984731	26,8	50'	0,0639517		0,9979530	31,3	20'	
30	0,0553859		0,9984650	26,8	30'	0,0640969		0,9979437	31,4	30'	
11	0,0555311		0,9984570	26,9	49'	0,0642420		0,9979343	31,5	19'	
30	0,0556763		0,9984489	26,9	30'	0,0643871		0,9979249	31,6	30'	
12	0,0558215		0,9984408	27,1	48'	0,0645323		0,9979156	31,7	18'	
30	0,0559667		0,9984326	27,2	30'	0,0646775		0,9979062	31,8	30'	
13	0,0561119		0,9984245	27,2	47'	0,0648226		0,9978968	31,9	17'	
30	0,0562572		0,9984163	27,3	30'	0,0649678		0,9978874	32,0	30'	
14	0,0564024		0,9984081	27,3	46'	0,0651129		0,9978779	32,1	16'	
30	0,0565476		0,9983999	27,4	30'	0,0652580		0,9978684	32,2	30'	
15	0,0566928		0,9983917	27,5	45'	0,0654031	483,7	0,9978589	32,3	15'	
30	0,0568380		0,9983834	27,5	30'	0,0655482		0,9978494	32,4	30'	
16	0,0569832		0,9983751	27,6	44'	0,0656934		0,9978399	32,5	14'	
30	0,0571284		0,9983668	27,6	30'	0,0658385		0,9978303	32,6	30'	
17	0,0572736		0,9983585	27,7	43'	0,0659836		0,9978207	32,7	13'	
30	0,0574188		0,9983501	27,8	30'	0,0661288		0,9978111	32,8	30'	
18	0,0575640		0,9983418	27,9	42'	0,0662739		0,9978015	32,9	12'	
30	0,0577092		0,9983334	28,0	30'	0,0664190		0,9977918	33,0	30'	
19	0,0578544		0,9983250	28,1	41'	0,0665641		0,9977821	33,1	11'	
30	0,0579996		0,9983166	28,1	30'	0,0667093		0,9977724	33,2	30'	
20	0,0581448		0,9983082	28,2	40'	0,0668544	483,6	0,9977627	33,3	10'	
30	0,0582900		0,9982997	28,2	30'	0,0669995		0,9977530	33,4	30'	
21	0,0584352		0,9982912	28,3	39'	0,0671446		0,9977433	33,5	9'	
30	0,0585804		0,9982827	28,4	30'	0,0672898		0,9977335	33,6	30'	
22	0,0587256		0,9982742	28,5	38'	0,0674349		0,9977237	33,7	8'	
30	0,0588708	483,9	0,9982656	28,6	30'	0,0675800		0,9977138	33,8	30'	
23	0,0590160		0,9982570	28,6	37'	0,0677251		0,9977040	33,9	7'	
30	0,0591612		0,9982484	28,7	30'	0,0678702		0,9976942	34,0	30'	
24	0,0593064		0,9982398	28,8	36'	0,0680153		0,9976843	34,1	30'	
30	0,0594516		0,9982312	28,8	30'	0,0681604		0,9976744	34,2	30'	
25	0,0595967		0,9982225	28,9	35'	0,0683055	483,6	0,9976645	34,3	5'	
30	0,0597419		0,9982138	29,0	30'	0,0684506		0,9976545	34,4	30'	
26	0,0598871		0,9982052	29,0	34'	0,0685957		0,9976445	34,5	4'	
30	0,0600323		0,9981965	29,1	30'	0,0687408		0,9976345	34,6	30'	
27	0,0601775		0,9981877	29,2	33'	0,0688859		0,9976245	34,7	30'	
30	0,0603226		0,9981790	29,3	30'	0,0690310	483,6	0,9976145	34,8	30'	
28	0,0604678		0,9981701	29,3	32'	0,0691761		0,9976045	34,9	2'	
30	0,0606130		0,9981613	29,4	30'	0,0693212		0,9975944	35,0	30'	
29	0,0607582		0,9981525	29,5	31'	0,0694663		0,9975843	35,1	30'	
30	0,0609034		0,9981436	29,5	30'	0,0696114		0,9975742	35,2	30'	
30	0,0610485	483,9	0,9981348	30'	50'	0,0697565	483,6	0,9975641	35,3	30'	
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.		

86 deg.

4 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,0597565	483,6	0,9975541	33,8	60'	0,0784591	483,3	0,9959173	30,0
30'	0,0699016		0,9975530	33,9	30'	0,0786041		0,9959059	38,0
1'	0,0700467		0,9975537	34,0	59'	0,0787491		0,9958945	38,1
30'	0,0701918		0,9975535	34,1	30'	0,0788941		0,9958830	38,2
2'	0,0703368		0,9975533	34,2	58'	0,0790391		0,9958715	38,3
30'	0,0704819	483,5	0,9975531	34,3	30'	0,0791841	483,2	0,9958600	38,4
3'	0,0706270		0,9975528	34,4	57'	0,0793290		0,9958485	38,5
0'	0,0707720		0,9975525	34,5	30'	0,0794740		0,9958369	38,6
4'	0,0709171		0,9975522	34,6	56'	0,0796190		0,9958254	38,7
30'	0,0710622		0,9975518	34,7	30'	0,0797640		0,9958138	38,8
5'	0,0712073	483,5	0,9975515	34,8	55'	0,0799090	483,1	0,9958022	38,9
30'	0,0713524		0,9975512	34,9	30'	0,0800539		0,9957906	39,0
6'	0,0714974		0,9975508	35,0	54'	0,0801989		0,9957790	39,1
30'	0,0716425		0,9975504	35,1	30'	0,0803439		0,9957674	39,2
7'	0,0717876		0,9975501	35,2	53'	0,0804889		0,9957558	39,3
30'	0,0719326	483,4	0,9975497	35,3	30'	0,0806339	483,0	0,9957442	39,4
8'	0,0720777		0,9975493	35,4	52'	0,0807788		0,9957326	39,5
30'	0,0722228		0,9975489	35,5	30'	0,0809238		0,9957210	39,6
9'	0,0723678		0,9975485	35,6	51'	0,0810687		0,9957094	39,7
30'	0,0725129		0,9975481	35,7	30'	0,0812137		0,9956978	39,8
10'	0,0726580	483,4	0,9975477	35,8	50'	0,0813587	483,1	0,9956862	39,9
30'	0,0728030		0,9975473	35,9	30'	0,0815036		0,9956746	40,0
11'	0,0729481		0,9975469	36,0	49'	0,0816486		0,9956630	40,1
30'	0,0730932		0,9975465	36,1	30'	0,0817936		0,9956514	40,2
12'	0,0732382		0,9975461	36,2	48'	0,0819385		0,9956398	40,3
30'	0,0733833	483,4	0,9975457	36,3	30'	0,0820835	483,0	0,9956282	40,4
13'	0,0735283		0,9975453	36,4	47'	0,0822284		0,9956166	40,5
30'	0,0736733		0,9975449	36,5	30'	0,0823733		0,9956050	40,6
14'	0,0738184		0,9975445	36,6	46'	0,0825183		0,9955934	40,7
30'	0,0739635		0,9975441	36,7	30'	0,0826633		0,9955818	40,8
15'	0,0741085	483,4	0,9975437	36,8	45'	0,0828082	483,0	0,9955702	40,9
30'	0,0742536		0,9975433	36,9	30'	0,0829532		0,9955586	41,0
16'	0,0743986		0,9975429	37,0	44'	0,0830981		0,9955470	41,1
30'	0,0745436		0,9975425	37,1	30'	0,0832430		0,9955354	41,2
17'	0,0746887		0,9975421	37,2	43'	0,0833880		0,9955238	41,3
30'	0,0748337	483,3	0,9975417	37,3	30'	0,0835329	483,0	0,9955122	41,4
18'	0,0749787		0,9975413	37,4	42'	0,0836778		0,9955006	41,5
30'	0,0751238		0,9975409	37,5	30'	0,0838228		0,9954890	41,6
19'	0,0752688		0,9975405	37,6	41'	0,0839677		0,9954774	41,7
30'	0,0754138		0,9975401	37,7	30'	0,0841126		0,9954658	41,8
20'	0,0755589	483,3	0,9975397	37,8	40'	0,0842576	483,0	0,9954542	41,9
30'	0,0757039		0,9975393	37,9	30'	0,0844025		0,9954426	42,0
21'	0,0758489		0,9975389	38,0	40'	0,0845474		0,9954310	42,1
30'	0,0759939		0,9975385	38,1	30'	0,0846924		0,9954194	42,2
22'	0,0761390		0,9975381	38,2	40'	0,0848373		0,9954078	42,3
30'	0,0762840	483,3	0,9975377	38,3	30'	0,0849822	483,0	0,9953962	42,4
23'	0,0764290		0,9975373	38,4	40'	0,0851271		0,9953846	42,5
30'	0,0765740		0,9975369	38,5	30'	0,0852720		0,9953730	42,6
24'	0,0767190		0,9975365	38,6	40'	0,0854169		0,9953614	42,7
30'	0,0768641		0,9975361	38,7	30'	0,0855618		0,9953498	42,8
25'	0,0770091	483,3	0,9975357	38,8	40'	0,0857067	483,0	0,9953382	42,9
30'	0,0771541		0,9975353	38,9	30'	0,0858517		0,9953266	43,0
26'	0,0772991		0,9975349	39,0	40'	0,0859966		0,9953150	43,1
30'	0,0774441		0,9975345	39,1	30'	0,0861415		0,9953034	43,2
27'	0,0775891		0,9975341	39,2	40'	0,0862864		0,9952918	43,3
30'	0,0777341	483,3	0,9975337	39,3	30'	0,0864313	483,0	0,9952802	43,4
28'	0,0778791		0,9975333	39,4	40'	0,0865762		0,9952686	43,5
30'	0,0780241		0,9975329	39,5	30'	0,0867211		0,9952570	43,6
29'	0,0781691		0,9975325	39,6	40'	0,0868660		0,9952454	43,7
30'	0,0783141		0,9975321	39,7	30'	0,0870109		0,9952338	43,8
30'	0,0784591		0,9975317	39,8	60'	0,0871557		0,9952222	43,9
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.

85 deg.

5 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,0871557	483,0	0,9964947	42,3	60'	30'	0,0958458	482,6	0,9953962	30'
30'	0,0873006		0,9961820		30'	30'	0,0959905		0,9953822	
1'	0,0874455		0,9958693		59'	31'	0,0961353		0,9953683	
30'	0,0875904		0,9955566		30'	30'	0,0962801		0,9953543	
2'	0,0877353	482,9	0,9952438	42,5	58'	32'	0,0964248	482,5	0,9953403	29'
30'	0,0878802		0,9949311		30'	30'	0,0965696		0,9953263	
30'	0,0880251		0,9946183		57'	33'	0,0967144		0,9953122	
1'	0,0881699		0,9943054		30'	30'	0,0968591		0,9952981	
40'	0,0883148	482,8	0,9939926	42,8	56'	34'	0,0970039	482,4	0,9952840	28'
30'	0,0884597		0,9936798		30'	30'	0,0971487		0,9952699	
5'	0,0886046		0,9933669		55'	35'	0,0972934		0,9952557	
30'	0,0887495		0,9930540		30'	30'	0,0974382		0,9952415	
6'	0,0888943	482,7	0,9927411	43,0	54'	36'	0,0975829	482,3	0,9952274	27'
30'	0,0890392		0,9924281		43,1	30'	0,0977276		0,9952132	
7'	0,0891840		0,9921152		53'	37'	0,0978724		0,9951990	
					43,2	37'			0,9951848	
30'	0,0893289	482,6	0,9918022	43,3	30'	30'	0,0980172	482,2	0,9951705	26'
8'	0,0894738		0,9914892		52'	38'	0,0981619		0,9951562	
30'	0,0896187		0,9911762		43,4	30'	0,0983066		0,9951419	
9'	0,0897635		0,9908631		51'	39'	0,0984514		0,9951275	
30'	0,0899084	482,5	0,9905501	43,6	43,5	30'	0,0985961	482,1	0,9951132	25'
10'	0,0900532		0,9902370		43,6	30'	0,0987408		0,9950988	
30'	0,0901981		0,9899238		43,7	50'	0,0988856		0,9950844	
11'	0,0903429		0,9896107		43,8	41'	0,0990303		0,9950700	
30'	0,0904878	482,4	0,9892975	43,9	30'	30'	0,0991750	482,0	0,9950556	24'
12'	0,0906326		0,9889844		42'	42'	0,0993197		0,9950411	
30'	0,0907774		0,9886712		30'	30'	0,0994645		0,9950265	
13'	0,0909223		0,9883580		41,0	43'	0,0996092		0,9950121	
30'	0,0910671	482,3	0,9880448	44,0	30'	30'	0,0997539	481,9	0,9949976	23'
14'	0,0912119		0,9877315		44,1	44'	0,0998986		0,9949831	
30'	0,0913568		0,9874182		44,2	30'	0,1000434		0,9949685	
					44,3	30'			0,9949539	
15'	0,0915016	482,2	0,9871049	44,4	45'	45'	0,1001881	481,8	0,9949393	22'
30'	0,0916464		0,9867916		30'	30'	0,1003328		0,9949247	
16'	0,0917913		0,9864783		44'	46'	0,1004775		0,9949101	
30'	0,0919361		0,9861649		44,5	30'	0,1006222		0,9948955	
17'	0,0920809	482,1	0,9858515	44,7	43'	47'	0,1007669	481,7	0,9948809	21'
30'	0,0922257		0,9855381		30'	30'	0,1009116		0,9948663	
18'	0,0923705		0,9852247		42'	48'	0,1010563		0,9948517	
30'	0,0925154		0,9849112		44,8	30'	0,1012010		0,9948371	
19'	0,0926602	482,0	0,9845978	44,9	41'	49'	0,1013457	481,6	0,9948225	20'
30'	0,0928050		0,9842843		44,9	30'	0,1014904		0,9948079	
20'	0,0929499		0,9839708		45,0	50'	0,1016351		0,9947933	
30'	0,0930947		0,9836573		45,1	30'	0,1017798		0,9947787	
21'	0,0932395	481,9	0,9833437	45,2	30'	51'	0,1019245	481,5	0,9947641	19'
30'	0,0933843		0,9830301		45,3	30'	0,1020692		0,9947495	
22'	0,0935291		0,9827165		45,4	52'	0,1022138		0,9947349	
									0,9947203	
30'	0,0936739	481,8	0,9824028	45,5	30'	30'	0,1023585	481,4	0,9947057	18'
23'	0,0938187		0,9820892		37'	53'	0,1025032		0,9946911	
30'	0,0939635		0,9817756		45,5	30'	0,1026479		0,9946765	
24'	0,0941083		0,9814619		36'	54'	0,1027925		0,9946619	
30'	0,0942531	481,7	0,9811483	45,6	30'	30'	0,1029372	481,3	0,9946473	17'
25'	0,0943977		0,9808345		45,6	55'	0,1030819		0,9946327	
30'	0,0945424		0,9805208		45,8	30'	0,1032266		0,9946181	
26'	0,0946875		0,9802070		34'	56'	0,1033712		0,9946035	
30'	0,0948323	481,6	0,9798932	45,9	45,9	30'	0,1035158	481,2	0,9945889	16'
27'	0,0949771		0,9795794		45,0	33'	0,1036605		0,9945743	
30'	0,0951218		0,9792656		46,1	30'	0,1038052		0,9945597	
28'	0,0952666		0,9789517		46,2	58'	0,1039499		0,9945451	
30'	0,0954114	481,5	0,9786379	46,3	30'	30'	0,1040946	481,1	0,9945305	15'
29'	0,0955562		0,9783240		51'	59'	0,1042392		0,9945159	
30'	0,0957010		0,9780101		46,4	30'	0,1043838		0,9945013	
30'	0,0958458		0,9776962		46,5	30'	0,1045285		0,9944867	
									0,9944721	
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

81 deg.

6 deg.

[illegible]

83 deg.



7 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,1218693		0,9925462		60'	30'	0,1305262		9,9914449	63,3
3'	0,1220137	481,3	0,9925284	59,2	3'	3'	0,1305704	480,7	9,9914259	63,4
1	0,1221581		0,99245107		59'	31'	0,1308146		9,9914069	63,5
3'	0,1223025	481,2	0,9924929	59,3	3'	3'	0,1309588	480,6	9,9913879	63,6
2'	0,1224468		0,9924751	59,5	58'	32'	0,1311039	480,5	9,9913683	63,7
3'	0,1225912	481,1	0,9924573	59,6	3'	3'	0,1312472	480,6	9,9913497	63,8
3'	0,1227355	481,0	0,9924394	59,7	33'	33'	0,1313913	480,7	9,9913306	63,9
4'	0,1228798		0,9924215		3'	3'	0,1315355	480,6	9,9913115	64,0
3'	0,1230241	481,2	0,9924037	56'	34'	34'	0,1316797	480,5	9,9912923	64,1
3'	0,1231685	481,1	0,9923858	56'	3'	3'	0,1318239	480,5	9,9912732	64,2
5'	0,1233128	481,0	0,9923679	55'	35'	35'	0,1319681		9,9912540	64,3
3'	0,1234571	481,1	0,9923499	54'	3'	3'	0,1321122		9,9912348	64,4
6'	0,1236015	481,2	0,9923319	60,0	36'	36'	0,1322564		9,9912155	64,5
3'	0,1237458		0,9923139	60,1	3'	3'	0,1324006		9,9911962	64,6
7'	0,1238901		0,9922959	60,2	53'	37'	0,1325447		9,9911770	64,7
3'	0,1240344		0,9922779		3'	3'	0,1326888		9,9911577	64,8
8'	0,1241788	481,0	0,9922599	60,3	52'	38'	0,1328330		9,9911384	64,9
3'	0,1243231		0,9922418		3'	3'	0,1329772		9,9911191	65,0
9'	0,1244674		0,9922237	51'	39'	39'	0,1331213		9,9910997	65,1
3'	0,1246117		0,9922056	60,4	3'	3'	0,1332655		9,9910803	65,2
10'	0,1247560		0,9921874	60,5	50'	40'	0,1334096		9,9910610	65,3
3'	0,1249003		0,9921693	60,6	3'	3'	0,1335538		9,9910415	65,4
11'	0,1250446		0,9921511	60,7	49'	41'	0,1336979		9,9910221	65,5
3'	0,1251889		0,9921329	60,8	3'	3'	0,1338421	480,4	9,9910027	65,6
12'	0,1253332		0,9921147	60,9	48'	42'	0,1339862	480,3	9,9909832	65,7
3'	0,1254775		0,9920965	60,9	3'	3'	0,1341303	480,4	9,9909637	65,8
13'	0,1256218		0,9920782	61,0	47'	43'	0,1342744	480,5	9,9909442	65,9
3'	0,1257661		0,9920599	61,1	3'	3'	0,1344186	480,4	9,9909246	66,0
14'	0,1259104	481,0	0,9920416	61,2	46'	44'	0,1345627	480,3	9,9909051	66,1
3'	0,1260547	480,9	0,9920232	61,3	3'	3'	0,1347068	480,4	9,9908855	66,2
15'	0,1261990	480,8	0,9920049	61,4	45'	4'	0,1348509	480,5	9,9908659	66,3
3'	0,1263433		0,9919866	61,5	3'	3'	0,1349951	480,4	9,9908463	66,4
16'	0,1264875	481,0	0,9919682	61,6	44'	46'	0,1351392	480,3	9,9908266	66,5
3'	0,1266318	480,9	0,9919498	61,7	3'	3'	0,1352833		9,9908069	66,6
17'	0,1267761	480,8	0,9919314	61,8	43'	47'	0,1354274		9,9907873	66,7
3'	0,1269203		0,9919129	61,9	3'	3'	0,1355715		9,9907676	66,8
18'	0,1270646		0,9918945	62,0	42'	48'	0,1357156		9,9907478	66,9
3'	0,1272088		0,9918759	62,1	3'	3'	0,1358597		9,9907281	67,0
19'	0,1273531		0,9918575	62,2	41'	49'	0,1360038		9,9907083	67,1
3'	0,1274973		0,9918389	62,3	3'	3'	0,1361479		9,9906885	67,2
20'	0,1276416		0,9918204	62,4	40'	50'	0,1362919		9,9906687	67,3
3'	0,1277859		0,9918018	62,5	3'	3'	0,1364360		9,9906488	67,4
21'	0,1279302		0,9917832	62,6	39'	51'	0,1365801		9,9906290	67,5
3'	0,1280744		0,9917646	62,7	3'	3'	0,1367242		9,9906092	67,6
22'	0,1282186		0,9917459	62,8	52'	52'	0,1368683	480,2	9,9905893	67,7
3'	0,1283629		0,9917272	62,9	3'	3'	0,1370123		9,9905694	67,8
23'	0,1285071		0,9917086	63,0	3'	3'	0,1371564	480,3	9,9905494	67,9
3'	0,1286514		0,9916899	63,1	3'	3'	0,1373005		9,9905295	68,0
24'	0,1287956		0,9916712	63,2	54'	54'	0,1374445		9,9905095	68,1
3'	0,1289399		0,9916525	63,3	3'	3'	0,1375886		9,9904894	68,2
25'	0,1290841	480,7	0,9916337	63,4	35'	55'	0,1377327	480,2	9,9904694	68,3
3'	0,1292283		0,9916149	63,5	3'	3'	0,1378768		9,9904494	68,4
26'	0,1293725		0,9915961	63,6	34'	56'	0,1380208		9,9904293	68,5
3'	0,1295167		0,9915773	63,7	3'	3'	0,1381648		9,9904092	68,6
27'	0,1296609		0,9915584	63,8	33'	57'	0,1383089		9,9903891	68,7
3'	0,1298052		0,9915395	63,9	3'	3'	0,1384530	480,1	9,9903690	68,8
28'	0,1299494		0,9915206	64,0	32'	58'	0,1385970	480,0	9,9903489	68,9
3'	0,1300936		0,9915017	64,1	3'	3'	0,1387410	480,1	9,9903287	69,0
29'	0,1302378		0,9914828	64,2	31'	59'	0,1388850	480,2	9,9903085	69,1
3'	0,1303820		0,9914639	64,3	3'	3'	0,1390290		9,9902883	69,2
30'	0,1305262		0,9914449	64,4	30'	60'	0,1391731		9,9902681	69,3
	co-sin.	10'' diff.	sin.	10'' dif.			co-sin.	10'' diff.	sin.	10'' dif.

82 deg.

8 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,1371731	480,2	0,9902681	67,5	60'	0,1478094	479,5	0,9890159	71,7
30'	0,1393172	480,1	0,9902476	67,5	30'	0,1479533	479,5	0,9889943	71,7
1'	0,1394612	480,0	0,9902275	67,7	31'	0,1480971	479,4	0,9889728	71,8
30'	0,1396052		0,9902072	67,7	30'	0,1482410	479,4	0,9889513	71,9
2'	0,1397492		0,9901869	67,8	32'	0,1483848	479,3	0,9889297	72,0
30'	0,1398932		0,9901666	67,9	30'	0,1485286	479,4	0,9889081	72,1
3'	0,1400372		0,9901462	68,0	33'	0,1486724	479,5	0,9888865	72,1
30'	0,1401812		0,9901259	68,1	30'	0,1488163	479,4	0,9888648	72,2
4'	0,1403252		0,9901054	68,2	34'	0,1489601	479,3	0,9888432	72,3
30'	0,1404692		0,9900850	68,2	30'	0,1491039	479,3	0,9888215	72,4
5'	0,1406132		0,9900646	68,3	35'	0,1492477	479,4	0,9887998	72,5
30'	0,1407572		0,9900442	68,3	30'	0,1493915	479,5	0,9887781	72,5
6'	0,1409012		0,9900237	68,4	36'	0,1495353	479,4	0,9887564	72,6
30'	0,1410452		0,9900032	68,4	30'	0,1496792	479,4	0,9887346	72,6
7'	0,1411892		0,9899826	68,5	37'	0,1498230	479,3	0,9887128	72,7
30'	0,1413332	479,9	0,9899621	68,6	30'	0,1499668	479,2	0,9886910	72,8
8'	0,1414772	479,8	0,9899415	68,7	38'	0,1501105	479,2	0,9886692	72,8
30'	0,1416212		0,9899209	68,8	30'	0,1502543	479,3	0,9886474	72,9
9'	0,1417651	479,9	0,9899003	68,9	39'	0,1503981	479,3	0,9886255	73,0
30'	0,1419091		0,9898797	69,0	30'	0,1505419	479,3	0,9886036	73,1
10'	0,1420531		0,9898590	69,0	40'	0,1506857	479,2	0,9885817	73,2
30'	0,1421970		0,9898383	69,1	30'	0,1508295	479,2	0,9885598	73,3
11'	0,1423410	479,8	0,9898177	69,1	41'	0,1509733	479,2	0,9885379	73,3
30'	0,1424850		0,9897969	69,2	30'	0,1511170	479,3	0,9885159	73,4
12'	0,1426289		0,9897762	69,2	42'	0,1512608	479,3	0,9884939	73,4
30'	0,1427729		0,9897555	69,2	30'	0,1514046	479,2	0,9884719	73,5
13'	0,1429168		0,9897347	69,3	43'	0,1515484	479,2	0,9884499	73,5
30'	0,1430608		0,9897139	69,4	30'	0,1516922	479,1	0,9884279	73,6
14'	0,1432047		0,9896931	69,4	44'	0,1518359	479,1	0,9884057	73,7
30'	0,1433486		0,9896723	69,5	30'	0,1519796	479,0	0,9883836	73,7
15'	0,1434926		0,9896514	69,5	45'	0,1521234	479,1	0,9883615	73,8
30'	0,1436366		0,9896305	69,6	30'	0,1522672	479,1	0,9883394	73,9
16'	0,1437805		0,9896096	69,6	46'	0,1524109	479,2	0,9883172	74,0
30'	0,1439245		0,9895887	69,7	30'	0,1525547	479,2	0,9882950	74,1
17'	0,1440684		0,9895677	70,0	47'	0,1526984	479,1	0,9882728	74,2
30'	0,1442123		0,9895467	70,1	30'	0,1528421	479,1	0,9882506	74,3
18'	0,1443562	479,7	0,9895258	70,1	48'	0,1529858	479,2	0,9882284	74,4
30'	0,1445001	479,8	0,9895048	70,2	30'	0,1531295	479,1	0,9882061	74,5
19'	0,1446440		0,9894838	70,2	49'	0,1532733	479,0	0,9881838	74,6
30'	0,1447880		0,9894627	70,3	30'	0,1534170	479,1	0,9881615	74,7
20'	0,1449319	479,7	0,9894416	70,3	50'	0,1535607	479,2	0,9881392	74,8
30'	0,1450758		0,9894205	70,4	30'	0,1537045	479,1	0,9881169	74,9
21'	0,1452197		0,9893994	70,5	51'	0,1538482	479,0	0,9880945	75,0
30'	0,1453636		0,9893783	70,6	30'	0,1539919	478,9	0,9880721	75,1
22'	0,1455075		0,9893572	70,7	52'	0,1541356	478,8	0,9880497	75,2
30'	0,1456514		0,9893360	70,8	30'	0,1542793	478,9	0,9880273	75,3
23'	0,1457953		0,9893148	70,9	53'	0,1544230	478,8	0,9880048	75,4
30'	0,1459392		0,9892935	71,0	30'	0,1545667	478,9	0,9879823	75,5
24'	0,1460830	479,6	0,9892723	71,1	54'	0,1547104	478,9	0,9879599	75,6
30'	0,1462269	479,5	0,9892511	71,2	30'	0,1548541	478,8	0,9879373	75,7
25'	0,1463708	479,5	0,9892298	71,3	55'	0,1549978	478,7	0,9879148	75,8
30'	0,1465147	479,6	0,9892085	71,4	30'	0,1551415	478,9	0,9878923	75,9
26'	0,1466585	479,5	0,9891872	71,5	56'	0,1552851	478,8	0,9878697	76,0
30'	0,1468024		0,9891659	71,6	30'	0,1554288	478,9	0,9878471	76,1
27'	0,1469463		0,9891445	71,7	57'	0,1555725	478,8	0,9878245	76,2
30'	0,1470901		0,9891231	71,8	30'	0,1557162	478,9	0,9878019	76,3
28'	0,1472340		0,9891017	71,9	58'	0,1558598	478,8	0,9877792	76,4
30'	0,1473779		0,9890803	72,0	30'	0,1560035	478,9	0,9877565	76,5
29'	0,1475217	477,5	0,9890588	72,1	59'	0,1561472	478,8	0,9877338	76,6
30'	0,1476655		0,9890373	72,2	30'	0,1562908	478,8	0,9877111	76,7
30'	0,1478094		0,9890159	72,3	60'	0,1564345	478,7	0,9876883	76,8
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"

- 81 deg.

9 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,1564345		0,9876883		60'	30'	0,1650476		0,9862856		30'		0,1650476		0,9862856	
3'	0,1565782	478,8	0,9876636	75,8	33'	33'	0,1651910	478,2	0,9862616	50,2	33'		0,1651910	478,2	0,9862616	
1'	0,1567218		0,9876423	75,9	59'	31'	0,1653345		0,9862375		29'		0,1653345		0,9862375	
3'	0,1568655		0,9876200	76,0	33'	33'	0,1654780		0,9862134		33'		0,1654780		0,9862134	
2'	0,1570091	478,7	0,9875972	76,1	53'	32'	0,1656214	478,1	0,9861894	80,3	33'		0,1656214	478,0	0,9861894	
3'	0,1571527		0,9875743	76,2	33'	33'	0,1657648		0,9861653		33'		0,1657648		0,9861653	
3'	0,1572963	478,8	0,9875514	76,3	57'	33'	0,1659082	478,1	0,9861412	80,4	27'		0,1659082	478,2	0,9861412	
3'	0,1574399		0,9875285	76,4	33'	33'	0,1660517		0,9861171		33'		0,1660517		0,9861171	
4'	0,1575836	478,7	0,9875057	76,5	56'	34'	0,1661951	478,1	0,9860929	80,6	26'		0,1661951	478,0	0,9860929	
3'	0,1577272		0,9874828	76,6	33'	33'	0,1663385		0,9860687		33'		0,1663385		0,9860687	
5'	0,1578703		0,9874598		55'	35'	0,1664819		0,9860445				0,1664819		0,9860445	
3'	0,1580145	473,8	0,9874368	76,7	33'	33'	0,1666253		0,9860203	80,8	33'		0,1666253		0,9860203	
6'	0,1581581		0,9874138	76,8	54'	36'	0,1667687		0,9859960		23'		0,1667687		0,9859960	
3'	0,1583017	478,7	0,9873908		33'	33'	0,1669121		0,9859717	81,0	23'		0,1669121		0,9859717	
7'	0,1584453		0,9873678	53'	37'	37'	0,1670556		0,9859475		23'		0,1670556		0,9859475	
3'	0,1585889		0,9873447	76,9	33'	33'	0,1671989		0,9859232		33'		0,1671989		0,9859232	
8'	0,1587325	478,6	0,9873215	77,0	52'	38'	0,1673423	477,9	0,9858988	81,1	22'		0,1673423	477,8	0,9858988	
3'	0,1588761		0,9872985	77,1	33'	33'	0,1674857		0,9858744		33'		0,1674857		0,9858744	
9'	0,1590197	478,7	0,9872754	77,2	51'	39'	0,1676291	477,8	0,9858501	81,2	21'		0,1676291	477,7	0,9858501	
3'	0,1591633		0,9872522	77,3	33'	33'	0,1677725		0,9858257		33'		0,1677725		0,9858257	
10'	0,1593069	478,5	0,9872291	77,4	50'	40'	0,1679159	477,9	0,9858013	81,3	20'		0,1679159	477,8	0,9858013	
3'	0,1594505		0,9872059	77,5	33'	33'	0,1680592		0,9857769		33'		0,1680592		0,9857769	
11'	0,1595940	478,6	0,9871827	77,6	49'	41'	0,1682026	477,9	0,9857524	81,4	19'		0,1682026	477,8	0,9857524	
3'	0,1597376		0,9871595	77,7	33'	33'	0,1683460		0,9857279		33'		0,1683460		0,9857279	
12'	0,1598812	478,6	0,9871363	77,8	48'	42'	0,1684894	477,9	0,9857035	81,5	18'		0,1684894	477,8	0,9857035	
3'	0,1600248		0,9871130	77,9	33'	33'	0,1686327		0,9856790		33'		0,1686327		0,9856790	
13'	0,1601683	478,5	0,9870897	77,9	47'	43'	0,1687761	477,8	0,9856544	81,6	17'		0,1687761	477,7	0,9856544	
3'	0,1603119		0,9870664	77,9	33'	33'	0,1689194		0,9856299		33'		0,1689194		0,9856299	
14'	0,1604555	478,5	0,9870431	77,9	46'	44'	0,1690628	477,8	0,9856053	81,7	16'		0,1690628	477,7	0,9856053	
3'	0,1605990		0,9870198	77,9	33'	33'	0,1692062		0,9855807		33'		0,1692062		0,9855807	
15'	0,1607426		0,9869964	78,0	45'	45'	0,1693495		0,9855561		33'		0,1693495		0,9855561	
3'	0,1608862	478,3	0,9869730	78,1	33'	33'	0,1694929	477,7	0,9855314	82,2	15'		0,1694929	477,6	0,9855314	
16'	0,1610297		0,9869496	78,2	44'	46'	0,1696362	477,8	0,9855068	82,3	14'		0,1696362	477,7	0,9855068	
3'	0,1611732	478,4	0,9869261	78,3	33'	33'	0,1697795		0,9854821		33'		0,1697795		0,9854821	
17'	0,1613167		0,9869027	78,4	43'	47'	0,1699228	477,8	0,9854574	82,4	13'		0,1699228	477,7	0,9854574	
3'	0,1614602	478,5	0,9868792	78,4	33'	33'	0,1700662		0,9854327		33'		0,1700662		0,9854327	
18'	0,1616038		0,9868557	78,5	42'	48'	0,1702095	477,7	0,9854079	82,5	12'		0,1702095	477,6	0,9854079	
3'	0,1617474	478,4	0,9868322	78,5	33'	33'	0,1703528		0,9853832		33'		0,1703528		0,9853832	
19'	0,1618909		0,9868087	78,6	41'	49'	0,1704961	477,8	0,9853584	82,6	11'		0,1704961	477,7	0,9853584	
3'	0,1620344	478,4	0,9867851	78,6	33'	33'	0,1706395		0,9853335		33'		0,1706395		0,9853335	
20'	0,1621779		0,9867615	78,7	40'	50'	0,1707828	477,7	0,9853087	82,7	10'		0,1707828	477,6	0,9853087	
3'	0,1623215	478,5	0,9867379	78,7	33'	33'	0,1709261		0,9852839		33'		0,1709261		0,9852839	
21'	0,1624650		0,9867143	78,8	39'	51'	0,1710694	477,6	0,9852590	82,8	9'		0,1710694	477,5	0,9852590	
3'	0,1626085	478,3	0,9866907	78,8	33'	33'	0,1712127		0,9852341		33'		0,1712127		0,9852341	
22'	0,1627520		0,9866670	78,9	38'	52'	0,1713560	477,5	0,9852092	82,9	8'		0,1713560	477,4	0,9852092	
3'	0,1628955	478,2	0,9866433	79,0	33'	33'	0,1714993		0,9851842		33'		0,1714993		0,9851842	
23'	0,1630390		0,9866196	79,1	37'	53'	0,1716425	477,6	0,9851593	83,0	7'		0,1716425	477,5	0,9851593	
3'	0,1631825	478,2	0,9865959	79,2	33'	33'	0,1717858		0,9851343		33'		0,1717858		0,9851343	
24'	0,1633260		0,9865722	79,3	36'	54'	0,1719291	477,5	0,9851093	83,1	6'		0,1719291	477,4	0,9851093	
3'	0,1634694		0,9865484	79,4	33'	33'	0,1720724		0,9850843		33'		0,1720724		0,9850843	
25'	0,1636129	478,3	0,9865246	79,5	35'	55'	0,1722156	477,6	0,9850593	83,2	5'		0,1722156	477,5	0,9850593	
3'	0,1637564		0,9865008	79,6	33'	33'	0,1723589		0,9850342		33'		0,1723589		0,9850342	
26'	0,1638999	478,2	0,9864770	79,7	34'	56'	0,1725022	477,5	0,9850091	83,3	4'		0,1725022	477,4	0,9850091	
3'	0,1640434		0,9864532	79,8	33'	33'	0,1726455		0,9849840		33'		0,1726455		0,9849840	
27'	0,1641868	478,3	0,9864293	79,9	33'	57'	0,1727887	477,6	0,9849589	83,4	3'		0,1727887	477,5	0,9849589	
3'	0,1643303		0,9864054	80,0	33'	33'	0,1729319		0,9849338		33'		0,1729319		0,9849338	
28'	0,1644738	478,2	0,9863815	79,9	32'	58'	0,1730752	477,7	0,9849086	83,5	2'		0,1730752	477,6	0,9849086	
3'	0,1646172		0,9863576	80,0	33'	33'	0,1732185		0,9848834		33'		0,1732185		0,9848834	
29'	0,1647607		0,9863336	80,1	31'	59'	0,1733617		0,9848582		33'		0,1733617		0,9848582	
3'	0,1649042		0,9863096	80,1	33'	33'	0,1735050		0,9848330		33'		0,1735050		0,9848330	
30'	0,1650476		0,9862856	80,1	30'	60'	0,1736482	477,4	0,9848078				0,1736482		0,9848078	
	co-sin.	10'' diff.	sin.	10'' dif.			co-sin.	10'' diff.	sin.	10'' dif.			co-sin.	10'' diff.	sin.	10'' dif.

10 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0,1736482		0,9848078		60'	30'	0,1822355		0,9832549		30'		0,1822355	476,7	0,9832549	30'
30'	0,1737914	477,3	0,9847825	84,3	30'	35'	0,1823785		0,9832284	88,5	35'		0,1825215		0,9832019	29'
1'	0,1739346	477,4	0,9847572		50'	31'	0,1825215		0,9831753		29'		0,1826645		0,9831487	28'
30'	0,1740779	477,5	0,9847319	84,4	30'	36'	0,1826645		0,9831221	88,6	36'		0,1828075		0,9830955	27'
2'	0,1742211	477,4	0,9847066	84,5	58'	32'	0,1828075		0,9830689	88,7	28'		0,1829505		0,9830422	26'
30'	0,1743643	477,3	0,9846812	84,6	30'	37'	0,1829505		0,9830155	89,1	30'		0,1830935		0,9829888	25'
3'	0,1745075		0,9846558	84,7	57'	33'	0,1830935	476,6	0,9829621	89,2	27'		0,1832365		0,9829365	24'
30'	0,1746507		0,9846304	84,8	30'	38'	0,1832365		0,9829085	89,3	30'		0,1833795		0,9828818	23'
4'	0,1747939		0,9846050	84,9	56'	34'	0,1833795		0,9828550	89,4	29'		0,1835224		0,9828282	22'
30'	0,1749371		0,9845796	85,0	30'	39'	0,1835224		0,9828013	89,5	30'		0,1836654		0,9827744	21'
5'	0,1750803		0,9845542	85,1	55'	35'	0,1836654	476,5	0,9827475	89,6	20'		0,1838084		0,9827205	20'
30'	0,1752235		0,9845287	85,2	30'	40'	0,1838084		0,9826937	89,7	30'		0,1839514		0,9826668	19'
6'	0,1753657		0,9845032	85,3	54'	36'	0,1839514		0,9826400	90,0	30'		0,1840944		0,9826128	18'
30'	0,1755099		0,9844777	85,4	30'	41'	0,1840944	476,3	0,9825858	90,1	30'		0,1842373		0,9825587	17'
7'	0,1756531		0,9844521	85,5	53'	37'	0,1842373		0,9825316	90,2	30'		0,1843802		0,9825046	16'
30'	0,1757963		0,9844265	85,6	30'	42'	0,1843802		0,9824775	90,3	30'		0,1845232		0,9824504	15'
8'	0,1759395	477,2	0,9844010	85,7	52'	38'	0,1845232		0,9824233	90,4	30'		0,1846662		0,9823963	14'
30'	0,1760826		0,9843754	85,8	30'	43'	0,1846662	476,4	0,9823689	90,5	30'		0,1848091		0,9823417	13'
9'	0,1762258		0,9843498	85,9	51'	39'	0,1848091		0,9823145	90,6	30'		0,1849520		0,9822873	12'
30'	0,1763690		0,9843242	86,0	30'	44'	0,1849520		0,9822600	90,7	30'		0,1850949		0,9822327	11'
10'	0,1765121		0,9842985	86,1	50'	40'	0,1850949	476,5	0,9822054	90,8	30'		0,1852379		0,9821781	10'
30'	0,1766552		0,9842728	86,2	30'	41'	0,1852379		0,9821507	90,9	30'		0,1853808		0,9821234	9'
11'	0,1767984		0,9842471	86,3	49'	41'	0,1853808		0,9820960	91,0	30'		0,1855237		0,9820686	8'
30'	0,1769416		0,9842214	86,4	30'	42'	0,1855237	476,3	0,9820412	91,1	30'		0,1856666		0,9820137	7'
12'	0,1770847		0,9841956	86,5	48'	42'	0,1856666		0,9819862	91,2	30'		0,1858095		0,9819587	6'
30'	0,1772278		0,9841698	86,6	30'	43'	0,1858095		0,9819312	91,3	30'		0,1859524		0,9819037	5'
13'	0,1773710		0,9841441	86,7	47'	43'	0,1859524		0,9818761	91,4	30'		0,1860953		0,9818485	4'
30'	0,1775142	477,1	0,9841183	86,8	30'	44'	0,1860953		0,9818209	91,5	30'		0,1862382		0,9818030	3'
14'	0,1776573	477,0	0,9840924	86,9	46'	44'	0,1862382	476,2	0,9817733	91,6	30'		0,1863811		0,9817380	2'
30'	0,1778004	477,1	0,9840665	87,0	30'	45'	0,1863811		0,9816955	91,7	30'		0,1865240		0,9816586	1'
15'	0,1779435	477,2	0,9840407	87,1	45'	45'	0,1865240		0,9816272	91,8	30'		0,1866669		0,9816000	0'
30'	0,1780866	477,1	0,9840148	87,2	30'	46'	0,1866669		0,9815730	91,9	30'		0,1868098		0,9815504	
16'	0,1782298	477,0	0,9839889	87,3	44'	46'	0,1868098		0,9815007	92,0	30'		0,1869527		0,9815007	
30'	0,1783729		0,9839630	87,4	30'	47'	0,1869527		0,9814284	92,1	30'		0,1870956		0,9814559	
17'	0,1785160		0,9839370	87,5	43'	47'	0,1870956	476,2	0,9813813	92,2	30'		0,1872384		0,9814037	
30'	0,1786591		0,9839110	87,6	30'	48'	0,1872384		0,9813562	92,3	30'		0,1873813		0,9813562	
18'	0,1788022		0,9838850	87,7	42'	48'	0,1873813		0,9813010	92,4	30'		0,1875242		0,9813010	
30'	0,1789453		0,9838590	87,8	30'	49'	0,1875242		0,9812458	92,5	30'		0,1876670		0,9812458	
19'	0,1790884		0,9838330	87,9	41'	49'	0,1876670		0,9811906	92,6	30'		0,1878099		0,9811906	
30'	0,1792315	476,9	0,9838069	88,0	30'	50'	0,1878099		0,9811354	92,7	30'		0,1879528		0,9811354	
20'	0,1793746	476,8	0,9837808	88,1	40'	50'	0,1879528		0,9810802	92,8	30'		0,1880956		0,9810802	
30'	0,1795176	476,9	0,9837547	88,2	30'	51'	0,1880956		0,9810250	92,9	30'		0,1882385		0,9810250	
21'	0,1796607	477,0	0,9837286	88,3	30'	52'	0,1882385		0,9809698	93,0	30'		0,1883813		0,9809698	
30'	0,1798038	476,7	0,9837025	88,4	30'	53'	0,1883813		0,9809146	93,1	30'		0,1885241		0,9809146	
22'	0,1799469	476,8	0,9836763	88,5	30'	54'	0,1885241		0,9808594	93,2	30'		0,1886669		0,9808594	
30'	0,1800900		0,9836501	88,6	30'	55'	0,1886669	476,1	0,9808042	93,3	30'		0,1888098		0,9808042	
23'	0,1802330		0,9836239	88,7	30'	56'	0,1888098		0,9807490	93,4	30'		0,1889527		0,9807490	
30'	0,1803760		0,9835977	88,8	30'	57'	0,1889527		0,9806938	93,5	30'		0,1890956		0,9806938	
24'	0,1805191		0,9835715	88,9	30'	58'	0,1890956		0,9806386	93,6	30'		0,1892384		0,9806386	
30'	0,1806622		0,9835452	89,0	30'	59'	0,1892384	476,0	0,9805834	93,7	30'		0,1893813		0,9805834	
25'	0,1808052		0,9835189	89,1	30'	60'	0,1893813		0,9805282	93,8	30'		0,1895242		0,9805282	
30'	0,1809483		0,9834926	89,2	30'	61'	0,1895242		0,9804730	93,9	30'		0,1896670		0,9804730	
26'	0,1810913		0,9834663	89,3	30'	62'	0,1896670		0,9804178	94,0	30'		0,1898099		0,9804178	
30'	0,1812343		0,9834400	89,4	30'	63'	0,1898099	475,9	0,9803626	94,1	30'		0,1899528		0,9803626	
27'	0,1813774		0,9834136	89,5	30'	64'	0,1899528		0,9803074	94,2	30'		0,1900956		0,9803074	
30'	0,1815204		0,9833872	89,6	30'	65'	0,1900956		0,9802522	94,3	30'		0,1902385		0,9802522	
28'	0,1816635		0,9833608	89,7	30'	66'	0,1902385		0,9801970	94,4	30'		0,1903813		0,9801970	
30'	0,1818065	475,7	0,9833343	89,8	30'	67'	0,1903813		0,9801418	94,5	30'		0,1905242		0,9801418	
29'	0,1819495		0,9833079	89,9	30'	68'	0,1905242		0,9800866	94,6	30'		0,1906670		0,9800866	
30'	0,1820925	475,7	0,9832814	89,0	30'	69'	0,1906670		0,9800314	94,7	30'		0,1908099		0,9800314	
30'	0,1822355		0,9832549	89,1	30'	70'	0,1908099		0,9800000	94,8	30'					
	co-sin.	diff.	sin.	diff.			co-sin.	diff.	sin.	diff.			co-sin.	diff.	sin.	diff.

79 deg.



11 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,1908090	475,8	0,9816272	92,5	60'	30'	0,1993679	475,2	0,9799247	96,7
36'	0,1909517		0,9815994	92,6	36'	36'	0,1995105	475,1	0,9798957	30'
1'	0,1910945		0,9815716	92,7	59'	31'	0,1996530	475,0	0,9798667	96,8
36'	0,1912373		0,9815438	92,7	36'	36'	0,1997955		0,9798377	96,9
2'	0,1913801		0,9815160	92,8	58'	32'	0,1999380		0,9798086	97,0
36'	0,1915228	475,7	0,9814882	92,9	36'	36'	0,2000805		0,9797795	97,1
3'	0,1916656		0,9814603	92,9	57'	33'	0,2002230		0,9797504	97,2
36'	0,1918083		0,9814324	93,0	36'	36'	0,2003655		0,9797212	97,3
4'	0,1919510		0,9814045	93,1	56'	34'	0,2005080		0,9796921	97,4
36'	0,1920938		0,9813765	93,2	36'	36'	0,2006505		0,9796629	97,5
5'	0,1922365	475,6	0,9813486	93,3	55'	35'	0,2007930	474,9	0,9796337	97,6
36'	0,1923793		0,9813207	93,3	36'	36'	0,2009355	474,8	0,9796044	97,7
6'	0,1925220		0,9812927	93,4	54'	36'	0,2010779	474,7	0,9795752	97,8
36'	0,1926647		0,9812646	93,4	36'	36'	0,2012204	474,6	0,9795459	97,9
7'	0,1928074		0,9812366	93,5	53'	37'	0,2013629	474,5	0,9795167	98,0
36'	0,1929501	475,5	0,9812086	93,6	36'	36'	0,2015053		0,9794874	98,1
8'	0,1930928		0,9811805	93,7	52'	38'	0,2016478		0,9794581	98,2
36'	0,1932355		0,9811524	93,7	36'	36'	0,2017903		0,9794288	98,3
9'	0,1933782		0,9811243	93,8	51'	39'	0,2019327		0,9793994	98,4
36'	0,1935209		0,9810962	93,9	36'	36'	0,2020752		0,9793700	98,5
10'	0,1936636	475,4	0,9810680	94,0	50'	40'	0,2022176	474,7	0,9793406	98,6
36'	0,1938063		0,9810398	94,1	36'	36'	0,2023600	474,6	0,9793112	98,7
11'	0,1939490		0,9810116	94,2	49'	41'	0,2025024	474,8	0,9792818	98,8
36'	0,1940917		0,9809834	94,2	36'	36'	0,2026448	474,8	0,9792523	98,9
12'	0,1942344		0,9809552	94,3	48'	42'	0,2027873	474,7	0,9792228	99,0
36'	0,1943771	475,3	0,9809269	94,3	36'	36'	0,2029297		0,9791933	99,1
13'	0,1945197		0,9808986	94,4	47'	43'	0,2030721		0,9791638	99,2
36'	0,1946624		0,9808703	94,4	36'	36'	0,2032145		0,9791343	99,3
14'	0,1948050		0,9808420	94,5	46'	44'	0,2033569		0,9791047	99,4
36'	0,1949476		0,9808137	94,6	36'	36'	0,2034994		0,9790751	99,5
15'	0,1950903	475,2	0,9807853	94,7	45'	45'	0,2036418		0,9790455	99,6
36'	0,1952330		0,9807569	94,7	36'	36'	0,2037841		0,9790159	99,7
16'	0,1953756		0,9807285	94,8	44'	46'	0,2039265		0,9789862	99,8
36'	0,1955182		0,9807001	94,9	36'	36'	0,2040689		0,9789565	99,9
17'	0,1956609		0,9806716	95,0	43'	47'	0,2042113		0,9789268	100,0
36'	0,1958035	475,1	0,9806431	95,1	36'	36'	0,2043537	474,6	0,9788971	100,1
18'	0,1959461		0,9806147	95,2	42'	48'	0,2044961	474,5	0,9788674	100,2
36'	0,1960888		0,9805862	95,2	36'	36'	0,2046384		0,9788376	100,3
19'	0,1962314		0,9805576	95,3	41'	49'	0,2047808		0,9788079	100,4
36'	0,1963740		0,9805290	95,3	36'	36'	0,2049232		0,9787781	100,5
20'	0,1965166	475,0	0,9805005	95,4	40'	50'	0,2050655		0,9787483	100,6
36'	0,1966592		0,9804719	95,4	36'	36'	0,2052078		0,9787185	100,7
21'	0,1968018		0,9804433	95,5	39'	51'	0,2053502		0,9786886	100,8
36'	0,1969444		0,9804147	95,6	36'	36'	0,2054926	474,4	0,9786587	100,9
22'	0,1970870		0,9803860	95,7	38'	52'	0,2056349		0,9786288	101,0
36'	0,1972296	474,9	0,9803573	95,8	36'	36'	0,2057772	474,3	0,9785988	101,1
23'	0,1973722		0,9803286	95,8	37'	53'	0,2059195	474,4	0,9785689	101,2
36'	0,1975147		0,9802999	95,9	36'	36'	0,2060619	474,5	0,9785390	101,3
24'	0,1976573		0,9802712	95,9	36'	54'	0,2062042	474,6	0,9785090	101,4
36'	0,1977999		0,9802424	95,9	36'	36'	0,2063465	474,7	0,9784790	101,5
25'	0,1979425	474,8	0,9802136	96,0	35'	55'	0,2064888		0,9784490	101,6
36'	0,1980850		0,9801848	96,0	36'	36'	0,2066311		0,9784190	101,7
26'	0,1982276		0,9801560	96,1	34'	56'	0,2067734		0,9783890	101,8
36'	0,1983702		0,9801271	96,2	36'	36'	0,2069157		0,9783590	101,9
27'	0,1985127		0,9800983	96,3	33'	57'	0,2070580		0,9783290	102,0
36'	0,1986552	474,7	0,9800694	96,4	36'	36'	0,2072003	474,2	0,9782990	102,1
28'	0,1987977		0,9800405	96,5	32'	58'	0,2073426	474,3	0,9782690	102,2
36'	0,1989402		0,9800116	96,5	36'	36'	0,2074849	474,4	0,9782390	102,3
29'	0,1990827		0,9799827	96,6	31'	59'	0,2076272	474,5	0,9782090	102,4
36'	0,1992252		0,9799537	96,6	36'	36'	0,2077695	474,6	0,9781790	102,5
30'	0,1993677	475,1	0,9799247	96,6	30'	60'	0,2079117	474,7	0,9781490	102,6
	co-sin.	10''	sin.	10''			co-sin.	10''	sin.	10''
		diff.		diff.				diff.		diff.

78 deg.

12 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,2079117		0,9781476		60'	30'	0,2164396		0,9762960		30'		0,2164396		0,9762960		30'
36	0,2080640	474,2	0,9781174	100,8	36	36	0,2165816	473,3	0,9762645	105,0	36		0,2165816	473,3	0,9762645	105,0	36
1'	0,2081962		0,9780871	100,9	59'	31'	0,2167236		0,9762330	105,1	29'		0,2167236		0,9762330	105,1	29'
36	0,2083384		0,9780568	101,0	36	36	0,2168656		0,9762014	105,2	36		0,2168656		0,9762014	105,2	36
2'	0,2084807		0,9780265	101,1	58'	32'	0,2170076	473,2	0,9761699	105,3	28'		0,2170076	473,2	0,9761699	105,3	28'
36	0,2086229		0,9779961	101,2	36	36	0,2171495		0,9761383		36		0,2171495		0,9761383		36
3'	0,2087652		0,9779658	101,3	57'	33'	0,2172915		0,9761067		27'		0,2172915		0,9761067		27'
36	0,2089080	474,1	0,9779354	101,4	36	36	0,2174335		0,9760751	105,4	36		0,2174335		0,9760751	105,4	36
4'	0,2090497		0,9779050	101,5	56'	34'	0,2175754		0,9760435	105,5	26'		0,2175754		0,9760435	105,5	26'
36	0,2091919	474,1	0,9778745	101,5	36	36	0,2177173		0,9760119	105,6	36		0,2177173		0,9760119	105,6	36
5'	0,2093341		0,9778441	101,6	55'	35'	0,2178593		0,9759802		25'		0,2178593		0,9759802		25'
36	0,2094764	474,2	0,9778137	101,6	36	36	0,2180013		0,9759485	105,7	36		0,2180013		0,9759485	105,7	36
6'	0,2096186		0,9777832	101,7	54'	36'	0,2181432		0,9759168		24'		0,2181432		0,9759168		24'
36	0,2097608	474,0	0,9777527	101,7	36	36	0,2182851		0,9758851	105,8	36		0,2182851		0,9758851	105,8	36
7'	0,2099030		0,9777222	101,8	53'	37'	0,2184271		0,9758533	105,9	23'		0,2184271		0,9758533	105,9	23'
36	0,2100452		0,9776917	101,9	36	36	0,2185691	473,1	0,9758215	106,1	36		0,2185691	473,1	0,9758215	106,1	36
8'	0,2101874		0,9776611	102,0	52'	38'	0,2187110	473,0	0,9757897	106,2	22'		0,2187110	473,0	0,9757897	106,2	22'
36	0,2103296	473,9	0,9776305	102,1	36	36	0,2188529		0,9757578		31'		0,2188529		0,9757578		31'
9'	0,2104718		0,9775999	102,2	51'	39'	0,2189948		0,9757260		21'		0,2189948		0,9757260		21'
36	0,2106139	473,9	0,9775692	102,2	36	36	0,2191367		0,9756942		36		0,2191367		0,9756942		36
10'	0,2107561		0,9775386	102,3	50'	40'	0,2192786		0,9756623	106,3	20'		0,2192786		0,9756623	106,3	20'
36	0,2108983	474,0	0,9775080	102,3	36	36	0,2194205		0,9756304	106,4	36		0,2194205		0,9756304	106,4	36
11'	0,2110405		0,9774773	102,4	49'	41'	0,2195624		0,9755985		19'		0,2195624		0,9755985		19'
36	0,2111826	473,8	0,9774466	102,4	36	36	0,2197043		0,9755666	106,5	36		0,2197043		0,9755666	106,5	36
12'	0,2113248		0,9774159	102,5	48'	42'	0,2198462		0,9755346	106,6	18'		0,2198462		0,9755346	106,6	18'
36	0,2114670		0,9773852	102,6	36	36	0,2199881	472,9	0,9755026		36		0,2199881	472,9	0,9755026		36
13'	0,2116091		0,9773544	102,7	47'	43'	0,2201300	472,8	0,9754706	106,8	17'		0,2201300	472,8	0,9754706	106,8	17'
36	0,2117513		0,9773236	102,8	36	36	0,2202718		0,9754385	106,9	36		0,2202718		0,9754385	106,9	36
14'	0,2118934		0,9772928	102,9	46'	44'	0,2204137		0,9754065		16'		0,2204137		0,9754065		16'
36	0,2120356	473,8	0,9772620	102,9	36	36	0,2205556		0,9753744	107,0	36		0,2205556		0,9753744	107,0	36
15'	0,2121777		0,9772311	103,0	45'	45'	0,2206974		0,9753423		15'		0,2206974		0,9753423		15'
36	0,2123198	473,7	0,9772002	103,0	36	36	0,2208392		0,9753102	107,1	36		0,2208392		0,9753102	107,1	36
16'	0,2124619		0,9771693	103,1	44'	46'	0,2209811		0,9752781		14'		0,2209811		0,9752781		14'
36	0,2126041	473,8	0,9771384	103,1	36	36	0,2211230		0,9752460	107,2	36		0,2211230		0,9752460	107,2	36
17'	0,2127462		0,9771075	103,2	43'	47'	0,2212648		0,9752138		13'		0,2212648		0,9752138		13'
36	0,2128883	473,7	0,9770765	103,2	36	36	0,2214066		0,9751816	107,3	36		0,2214066		0,9751816	107,3	36
18'	0,2130304		0,9770456	103,3	42'	48'	0,2215485		0,9751494		12'		0,2215485		0,9751494		12'
36	0,2131725		0,9770146	103,4	36	36	0,2216903	472,7	0,9751172	107,5	36		0,2216903	472,7	0,9751172	107,5	36
19'	0,2133146		0,9769836	103,5	41'	49'	0,2218321		0,9750850		11'		0,2218321		0,9750850		11'
36	0,2134567	473,6	0,9769526	103,6	36	36	0,2219740	472,8	0,9750526	107,7	36		0,2219740	472,8	0,9750526	107,7	36
20'	0,2135988		0,9769215	103,7	40'	50'	0,2221158		0,9750203		10'		0,2221158		0,9750203		10'
36	0,2137408	473,5	0,9768904	103,7	36	36	0,2222576		0,9749879	107,8	36		0,2222576		0,9749879	107,8	36
21'	0,2138829		0,9768593	103,8	39'	51'	0,2223994		0,9749556		9'		0,2223994		0,9749556		9'
36	0,2140250	473,7	0,9768281	103,8	36	36	0,2225412		0,9749233	107,9	36		0,2225412		0,9749233	107,9	36
22'	0,2141671		0,9767970	103,9	38'	52'	0,2226830		0,9748909		8'		0,2226830		0,9748909		8'
36	0,2143091	473,5	0,9767659	103,9	36	36	0,2228248	472,6	0,9748585	108,0	36		0,2228248	472,6	0,9748585	108,0	36
23'	0,2144512		0,9767347	104,0	37'	53'	0,2229666		0,9748261		7'		0,2229666		0,9748261		7'
36	0,2145933		0,9767035	104,1	36	36	0,2231083	472,5	0,9747936	108,1	36		0,2231083	472,5	0,9747936	108,1	36
24'	0,2147353		0,9766723	104,2	36'	54'	0,2232500		0,9747612		6'		0,2232500		0,9747612		6'
36	0,2148774	473,6	0,9766410	104,2	36	36	0,2233919	472,7	0,9747287	108,3	36		0,2233919	472,7	0,9747287	108,3	36
25'	0,2150194		0,9766098	104,3	35'	55'	0,2235337		0,9746962		5'		0,2235337		0,9746962		5'
36	0,2151614		0,9765785	104,4	36	36	0,2236754	472,5	0,9746637	108,5	36		0,2236754	472,5	0,9746637	108,5	36
26'	0,2153035		0,9765472	104,5	34'	56'	0,2238172		0,9746311		4'		0,2238172		0,9746311		4'
36	0,2154455	473,4	0,9765159	104,5	36	36	0,2239590	472,4	0,9745985	108,6	36		0,2239590	472,4	0,9745985	108,6	36
27'	0,2155876		0,9764845	104,6	33'	57'	0,2241007		0,9745660		3'		0,2241007		0,9745660		3'
36	0,2157296	473,3	0,9764531	104,7	36	36	0,2242424	472,3	0,9745334	108,7	36		0,2242424	472,3	0,9745334	108,7	36
28'	0,2158716		0,9764217	104,8	32'	58'	0,2243842		0,9745008		2'		0,2243842		0,9745008		2'
36	0,2160136		0,9763903	104,9	36	36	0,2245259	472,5	0,9744682	108,8	36		0,2245259	472,5	0,9744682	108,8	36
29'	0,2161556		0,9763589	105,0	31'	59'	0,2246676		0,9744355		1'		0,2246676		0,9744355		1'
36	0,2162976	473,5	0,9763275	105,0	36	36	0,2248093		0,9744028	109,0	36		0,2248093		0,9744028	109,0	36
30'	0,2164396		0,9762960	105,1	30'	60'	0,2249511	472,4	0,9743701	109,1	0'		0,2249511	472,4	0,9743701	109,1	0'
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.	

77 deg.

13 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,2249511	472,3	0,9743701	109,2	60'	0,2334454	471,3	0,9723639	113,3	30'	0,2334454	471,3	0,9723639	113,3
30'	0,2250728		0,9743373		30'	0,2335868		0,9723369		30'	0,2335868		0,9723369	
1'	0,2252345	472,2	0,9743046	109,3	50'	0,2337282	471,2	0,9723099	113,4	20'	0,2337282	471,2	0,9723099	113,4
30'	0,2253762		0,9742718		30'	0,2338696		0,9722829		20'	0,2338696		0,9722829	
2'	0,2255179	472,3	0,9742390	109,4	58'	0,2340110	471,1	0,9722559	113,5	28'	0,2340110	471,1	0,9722559	113,5
30'	0,2256596		0,9742062		30'	0,2341524		0,9722289		28'	0,2341524		0,9722289	
3'	0,2258013	472,2	0,9741734	109,5	57'	0,2342938	471,0	0,9722019	113,6	27'	0,2342938	471,0	0,9722019	113,6
30'	0,2259429		0,9741406		30'	0,2344352		0,9721749		27'	0,2344352		0,9721749	
4'	0,2260846	472,3	0,9741077	109,6	56'	0,2345766	470,9	0,9721479	113,7	26'	0,2345766	470,9	0,9721479	113,7
30'	0,2262263		0,9740748		30'	0,2347180		0,9721209		26'	0,2347180		0,9721209	
5'	0,2263680	472,2	0,9740419	109,7	55'	0,2348594	470,8	0,9720939	113,8	25'	0,2348594	470,8	0,9720939	113,8
30'	0,2265096		0,9740090		30'	0,2350007		0,9720669		25'	0,2350007		0,9720669	
6'	0,2266513	472,3	0,9739760	109,8	54'	0,2351421	470,7	0,9720399	113,9	24'	0,2351421	470,7	0,9720399	113,9
30'	0,2267929		0,9739430		30'	0,2352834		0,9720129		24'	0,2352834		0,9720129	
7'	0,2269346	472,2	0,9739100	109,9	53'	0,2354248	470,6	0,9719859	114,0	23'	0,2354248	470,6	0,9719859	114,0
30'	0,2270763		0,9738769		30'	0,2355662		0,9719589		23'	0,2355662		0,9719589	
8'	0,2272179	472,1	0,9738439	109,0	52'	0,2357075	470,5	0,9719319	114,1	22'	0,2357075	470,5	0,9719319	114,1
30'	0,2273596		0,9738109		30'	0,2358489		0,9719049		22'	0,2358489		0,9719049	
9'	0,2275012	472,0	0,9737778	110,3	51'	0,2359902	470,4	0,9718779	114,2	21'	0,2359902	470,4	0,9718779	114,2
30'	0,2276428		0,9737447		30'	0,2361316		0,9718509		21'	0,2361316		0,9718509	
10'	0,2277844	472,2	0,9737116	110,4	50'	0,2362729	470,3	0,9718239	114,3	20'	0,2362729	470,3	0,9718239	114,3
30'	0,2279261		0,9736785		30'	0,2364142		0,9717969		20'	0,2364142		0,9717969	
11'	0,2280677	472,1	0,9736453	110,5	49'	0,2365555	470,2	0,9717699	114,4	19'	0,2365555	470,2	0,9717699	114,4
30'	0,2282093		0,9736121		30'	0,2366968		0,9717429		19'	0,2366968		0,9717429	
12'	0,2283509	472,0	0,9735789	110,6	48'	0,2368381	470,1	0,9717159	114,5	18'	0,2368381	470,1	0,9717159	114,5
30'	0,2284925		0,9735457		30'	0,2369794		0,9716889		18'	0,2369794		0,9716889	
13'	0,2286341	471,9	0,9735124	110,7	47'	0,2371207	470,0	0,9716619	114,6	17'	0,2371207	470,0	0,9716619	114,6
30'	0,2287756		0,9734791		30'	0,2372620		0,9716349		17'	0,2372620		0,9716349	
14'	0,2289172	471,8	0,9734458	110,8	46'	0,2374033	469,9	0,9716079	114,7	16'	0,2374033	469,9	0,9716079	114,7
30'	0,2290588		0,9734125		30'	0,2375446		0,9715809		16'	0,2375446		0,9715809	
15'	0,2292004	471,7	0,9733792	111,1	45'	0,2376859	469,8	0,9715539	114,8	15'	0,2376859	469,8	0,9715539	114,8
30'	0,2293419		0,9733458		30'	0,2378272		0,9715269		15'	0,2378272		0,9715269	
16'	0,2294835	471,6	0,9733125	111,2	44'	0,2379684	469,7	0,9714999	114,9	14'	0,2379684	469,7	0,9714999	114,9
30'	0,2296251		0,9732791		30'	0,2381097		0,9714729		14'	0,2381097		0,9714729	
17'	0,2297666	471,5	0,9732457	111,3	43'	0,2382510	469,6	0,9714459	115,0	13'	0,2382510	469,6	0,9714459	115,0
30'	0,2299082		0,9732123		30'	0,2383922		0,9714189		13'	0,2383922		0,9714189	
18'	0,2300497	471,4	0,9731788	111,4	42'	0,2385335	469,5	0,9713919	115,1	12'	0,2385335	469,5	0,9713919	115,1
30'	0,2301912		0,9731453		30'	0,2386747		0,9713649		12'	0,2386747		0,9713649	
19'	0,2303328	471,3	0,9731118	111,5	41'	0,2388159	469,4	0,9713379	115,2	11'	0,2388159	469,4	0,9713379	115,2
30'	0,2304743		0,9730783		30'	0,2389571		0,9713109		11'	0,2389571		0,9713109	
20'	0,2306159	471,2	0,9730448	111,6	40'	0,2390984	469,3	0,9712839	115,3	10'	0,2390984	469,3	0,9712839	115,3
30'	0,2307574		0,9730113		30'	0,2392396		0,9712569		10'	0,2392396		0,9712569	
21'	0,2308989	471,1	0,9729777	111,7	39'	0,2393808	469,2	0,9712299	115,4	9'	0,2393808	469,2	0,9712299	115,4
30'	0,2310404		0,9729441		30'	0,2395221		0,9712029		9'	0,2395221		0,9712029	
22'	0,2311819	471,0	0,9729105	111,8	38'	0,2396633	469,1	0,9711759	115,5	8'	0,2396633	469,1	0,9711759	115,5
30'	0,2313234		0,9728768		30'	0,2398045		0,9711489		8'	0,2398045		0,9711489	
23'	0,2314649	470,9	0,9728432	111,9	37'	0,2399457	469,0	0,9711219	115,6	7'	0,2399457	469,0	0,9711219	115,6
30'	0,2316064		0,9728095		30'	0,2400869		0,9710949		7'	0,2400869		0,9710949	
24'	0,2317479	470,8	0,9727758	112,0	36'	0,2402280	468,9	0,9710679	115,7	6'	0,2402280	468,9	0,9710679	115,7
30'	0,2318894		0,9727421		30'	0,2403692		0,9710409		6'	0,2403692		0,9710409	
25'	0,2320309	470,7	0,9727084	112,1	35'	0,2405104	468,8	0,9710139	115,8	5'	0,2405104	468,8	0,9710139	115,8
30'	0,2321723		0,9726747		30'	0,2406516		0,9709869		5'	0,2406516		0,9709869	
26'	0,2323138	470,6	0,9726409	112,2	34'	0,2407927	468,7	0,9709599	115,9	4'	0,2407927	468,7	0,9709599	115,9
30'	0,2324553		0,9726071		30'	0,2409339		0,9709329		4'	0,2409339		0,9709329	
27'	0,2325967	470,5	0,9725733	112,3	33'	0,2410751	468,6	0,9709059	116,0	3'	0,2410751	468,6	0,9709059	116,0
30'	0,2327381		0,9725395		30'	0,2412163		0,9708789		3'	0,2412163		0,9708789	
28'	0,2328796	470,4	0,9725056	112,4	32'	0,2413574	468,5	0,9708519	116,1	2'	0,2413574	468,5	0,9708519	116,1
30'	0,2330211		0,9724717		30'	0,2414985		0,9708249		2'	0,2414985		0,9708249	
29'	0,2331625	470,3	0,9724378	112,5	31'	0,2416396	468,4	0,9707979	116,2	1'	0,2416396	468,4	0,9707979	116,2
30'	0,2333039		0,9724038		30'	0,2417808		0,9707709		1'	0,2417808		0,9707709	
30'	0,2334454	470,2	0,9723699	112,6	30'	0,2419219	468,3	0,9707439	116,3	0'	0,2419219	468,3	0,9707439	116,3
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"
		diff.		diff.			diff.		diff.			diff.		diff.

14 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,2419219	470,3	0,9702957	117,3	60'	0,2503800	469,3	0,9681476	121,5	30'
30'	0,2420630		0,9702605	117,4	30'	0,2505208		0,9681111		30'
1'	0,2422041		0,9702253	117,5	59'	0,2506616		0,9680747		29'
30'	0,2423452		0,9701901	117,6	30'	0,2508024		0,9680383	121,6	30'
2'	0,2424863	470,2	0,9701548	117,7	58'	0,2509432	469,2	0,9680018	121,7	28'
30'	0,2426274		0,9701195		30'	0,2510840		0,9679653		30'
30'	0,2427685		0,9700842	117,8	57'	0,2512248		0,9679288	121,8	27'
30'	0,2429096		0,9700488		30'	0,2513655		0,9678923	121,9	30'
4'	0,2430507	470,1	0,9700135	118,0	56'	0,2515063	469,3	0,9678557	122,0	26'
30'	0,2431918		0,9699782	118,1	30'	0,2516471		0,9678191	122,1	30'
5'	0,2433329		0,9699428	118,2	55'	0,2517879		0,9677825	122,2	25'
30'	0,2434739		0,9699074	118,3	30'	0,2519287	469,2	0,9677458	122,3	30'
6'	0,2436150	470,0	0,9698720	118,4	54'	0,2520694		0,9677092	122,4	24'
30'	0,2437561		0,9698365	118,5	30'	0,2522101		0,9676725	122,5	30'
7'	0,2438971		0,9698011	118,6	53'	0,2523508		0,9676358		23'
30'	0,2440381	470,1	0,9697656	118,7	30'	0,2524916	469,1	0,9675990		30'
30'	0,2441792		0,9697301	118,8	52'	0,2526323		0,9675623	122,6	22'
30'	0,2443203		0,9696945	118,9	30'	0,2527730		0,9675256	122,7	30'
30'	0,2444613		0,9696589	119,0	51'	0,2529137	469,0	0,9674888	122,8	21'
30'	0,2446023	470,2	0,9696235	119,1	30'	0,2530545		0,9674520	122,9	30'
10'	0,2447433		0,9695879	119,2	50'	0,2531952		0,9674152	123,0	20'
30'	0,2448844		0,9695523	119,3	30'	0,2533359		0,9673784	123,1	30'
11'	0,2450254	470,1	0,9695167	119,4	49'	0,2534766	468,9	0,9673415	123,2	19'
30'	0,2451664		0,9694811	119,5	30'	0,2536173		0,9673046	123,3	30'
12'	0,2453074		0,9694454	119,6	48'	0,2537579		0,9672677	123,4	18'
30'	0,2454484		0,9694097	119,7	30'	0,2538986	468,8	0,9672307		30'
13'	0,2455894	469,9	0,9693740	119,8	47'	0,2540393		0,9671938	123,5	17'
30'	0,2457303		0,9693382	119,9	30'	0,2541799		0,9671569		30'
14'	0,2458713		0,9693025	120,0	46'	0,2543206		0,9671199	123,6	16'
30'	0,2460123		0,9692667	120,1	30'	0,2544613	468,7	0,9670829	123,7	30'
15'	0,2461533	469,8	0,9692309	120,2	45'	0,2546019		0,9670459	123,8	15'
30'	0,2462943		0,9691950	120,3	30'	0,2547425		0,9670089	123,9	30'
16'	0,2464352		0,9691592	120,4	44'	0,2548832		0,9669718	124,0	14'
30'	0,2465761		0,9691234	120,5	30'	0,2550239	468,6	0,9669347	124,1	30'
17'	0,2467171	469,7	0,9690875	120,6	43'	0,2551645		0,9668976	124,2	13'
30'	0,2468581		0,9690516	120,7	30'	0,2553052		0,9668605	124,3	30'
18'	0,2469990		0,9690157	120,8	42'	0,2554458		0,9668233	124,4	12'
30'	0,2471399		0,9689798	120,9	30'	0,2555864	468,5	0,9667862	124,5	30'
19'	0,2472809	469,6	0,9689438	121,0	41'	0,2557270		0,9667490	124,6	11'
30'	0,2474218		0,9689078	121,1	30'	0,2558676		0,9667118	124,7	30'
20'	0,2475627		0,9688718	121,2	40'	0,2560082		0,9666746	124,8	10'
30'	0,2477036		0,9688358	121,3	30'	0,2561488	468,4	0,9666373	124,9	30'
21'	0,2478445	469,5	0,9687998	121,4	39'	0,2562894		0,9666001	125,0	9'
30'	0,2479854		0,9687637	121,5	30'	0,2564300		0,9665628	125,1	30'
22'	0,2481263		0,9687277	121,6	52'	0,2565705		0,9665255	125,2	8'
30'	0,2482672	469,4	0,9686916	121,7	30'	0,2567111	468,3	0,9664882	125,3	30'
23'	0,2484081		0,9686555	121,8	37'	0,2568517		0,9664508	125,4	7'
30'	0,2485490		0,9686194	121,9	30'	0,2569922		0,9664134	125,5	30'
24'	0,2486899		0,9685832	122,0	36'	0,2571328	468,2	0,9663760	125,6	6'
30'	0,2488307	469,3	0,9685470	122,1	30'	0,2572734		0,9663386	125,7	30'
25'	0,2489716		0,9685108	122,2	35'	0,2574139		0,9663012	125,8	5'
30'	0,2491124		0,9684746	122,3	30'	0,2575545		0,9662638	125,9	30'
26'	0,2492533	469,2	0,9684383	122,4	34'	0,2576950	468,1	0,9662263	126,0	4'
30'	0,2493942		0,9684020	122,5	30'	0,2578355		0,9661888	126,1	30'
27'	0,2495350		0,9683657	122,6	33'	0,2579760		0,9661513	126,2	30'
30'	0,2496759		0,9683294	122,7	30'	0,2581165	468,0	0,9661137	126,3	30'
28'	0,2498167	469,1	0,9682931	122,8	32'	0,2582570		0,9660762	126,4	2'
30'	0,2499576		0,9682567	122,9	30'	0,2583975		0,9660386	126,5	30'
29'	0,2500984		0,9682204	123,0	31'	0,2585380		0,9659990	126,6	1'
30'	0,2502392		0,9681840	123,1	30'	0,2586785	467,9	0,9659614	126,7	30'
30'	0,2503800		0,9681476	123,2	60'	0,2588190		0,9659238	126,8	30'
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.	

75 deg.



15 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,2588190	468,3	0,9655253	125,5	60'	0,2672384	467,2	0,9636305	127,7	30'	
30'	0,2589595		0,9655882	125,6	30'	0,2673786	467,1	0,9635916	127,7	30'	
1'	0,2591000	468,2	0,9656505	125,7	50'	0,2675187	467,0	0,9635527	127,8	20'	
30'	0,2592405		0,9657128	125,8	30'	0,2676588	467,1	0,9635137	127,8	30'	
2'	0,2593810	468,1	0,9657751	125,8	50'	0,2677989	467,2	0,9634748	127,9	20'	
30'	0,2595215		0,9658374	126,0	30'	0,2679391	467,1	0,9634359	127,9	30'	
3'	0,2596619	468,0	0,9658996	126,0	50'	0,2680792	467,0	0,9633969	128,0	20'	
30'	0,2598023		0,9659618	126,1	30'	0,2682193		0,9633579	128,0	30'	
4'	0,2599428	468,1	0,9660240	126,2	50'	0,2683594		0,9633189	128,1	20'	
30'	0,2600833		0,9660861	126,2	30'	0,2684995		0,9632799	128,1	30'	
5'	0,2602237	468,0	0,9661483	126,3	55'	0,2686396		0,9632408	128,2	25'	
30'	0,2603641		0,9662104	126,3	30'	0,2687797		0,9632017	128,2	30'	
6'	0,2605045	467,9	0,9662725	126,3	54'	0,2689198		0,9631626	128,3	24'	
30'	0,2606449		0,9663347	126,4	30'	0,2690599	467,9	0,9631235	128,3	30'	
7'	0,2607853	467,8	0,9663968	126,5	53'	0,2692000	466,8	0,9630843	128,4	23'	
30'	0,2609257		0,9664589	126,6	30'	0,2693401		0,9630451	128,4	30'	
8'	0,2610662	467,7	0,9665209	126,7	52'	0,2694801		0,9630059	128,5	22'	
30'	0,2612066		0,9665829	126,7	30'	0,2696202		0,9629667	128,5	30'	
9'	0,2613469	467,8	0,9666449	126,8	51'	0,2697602		0,9629275	128,6	21'	
30'	0,2614873		0,9667069	126,8	30'	0,2699002		0,9628883	128,6	30'	
10'	0,2616277	467,9	0,9667689	126,9	50'	0,2700403		0,9628490	128,7	20'	
30'	0,2617681		0,9668308	126,9	30'	0,2701804		0,9628097	128,7	30'	
11'	0,2619085	467,8	0,9668927	127,0	49'	0,2703204	466,7	0,9627704	128,8	19'	
30'	0,2620488		0,9669546	127,1	30'	0,2704604		0,9627310	128,8	30'	
12'	0,2621892	467,7	0,9670165	127,1	48'	0,2706004	466,8	0,9626917	128,9	18'	
30'	0,2623295		0,9670783	127,2	30'	0,2707405		0,9626523	128,9	30'	
13'	0,2624699	467,6	0,9671402	127,3	47'	0,2708805	466,7	0,9626130	129,0	17'	
30'	0,2626103		0,9672020	127,4	30'	0,2710205	466,6	0,9625736	129,0	30'	
14'	0,2627506	467,7	0,9672638	127,5	46'	0,2711605	466,5	0,9625342	129,1	16'	
30'	0,2628909		0,9673256	127,6	30'	0,2713004	466,6	0,9624948	129,1	30'	
15'	0,2630312	467,5	0,9673873	127,7	45'	0,2714404	466,7	0,9624553	129,2	15'	
30'	0,2631715		0,9674490	127,7	30'	0,2715804	466,6	0,9624158	129,2	30'	
16'	0,2633118	467,6	0,9675107	127,8	44'	0,2717204	466,5	0,9623763	129,3	14'	
30'	0,2634521		0,9675724	127,8	30'	0,2718603		0,9623368	129,3	30'	
17'	0,2635925	467,5	0,9676341	127,9	43'	0,2720003	466,5	0,9622972	129,4	13'	
30'	0,2637328		0,9676958	127,9	30'	0,2721402		0,9622576	129,4	30'	
18'	0,2638730	467,4	0,9677574	128,0	42'	0,2722802	466,4	0,9622180	129,5	12'	
30'	0,2640133		0,9678190	128,0	30'	0,2724201		0,9621783	129,5	30'	
19'	0,2641536	467,3	0,9678806	128,1	41'	0,2725601	466,3	0,9621387	129,6	11'	
30'	0,2642939		0,9679421	128,2	30'	0,2727001		0,9620991	129,6	30'	
20'	0,2644342	467,2	0,9680037	128,3	40'	0,2728400	466,4	0,9620594	129,7	10'	
30'	0,2645744		0,9680652	128,3	30'	0,2729799	466,3	0,9620197	129,7	30'	
21'	0,2647147	467,1	0,9681267	128,4	39'	0,2731198		0,9619800	129,8	9'	
30'	0,2648550		0,9681882	128,4	30'	0,2732597		0,9619403	129,8	30'	
22'	0,2649952	467,0	0,9682497	128,5	38'	0,2733997	466,2	0,9619005	129,9	8'	
30'	0,2651354		0,9683112	128,6	30'	0,2735395		0,9618607	129,9	30'	
23'	0,2652757	466,9	0,9683726	128,6	37'	0,2736794	466,1	0,9618209	130,0	7'	
30'	0,2654159		0,9684340	128,7	30'	0,2738193		0,9617811	130,0	30'	
24'	0,2655561	466,8	0,9684954	128,8	36'	0,2739592	466,0	0,9617413	130,1	6'	
30'	0,2656963		0,9685568	128,8	30'	0,2740991		0,9617015	130,1	30'	
25'	0,2658365	466,7	0,9686181	129,0	35'	0,2742390	465,9	0,9616616	130,2	5'	
30'	0,2659768		0,9686794	129,0	30'	0,2743788		0,9616217	130,2	30'	
26'	0,2661170	466,6	0,9687407	129,1	34'	0,2745187	465,8	0,9615818	130,3	4'	
30'	0,2662572		0,9688020	129,1	30'	0,2746585		0,9615419	130,3	30'	
27'	0,2663973	466,5	0,9688633	129,2	33'	0,2747984	465,7	0,9615019	130,4	3'	
30'	0,2665375		0,9689245	129,2	30'	0,2749383		0,9614619	130,4	30'	
28'	0,2666777	466,4	0,9689858	129,3	32'	0,2750781	465,6	0,9614219	130,5	2'	
30'	0,2668179		0,9690470	129,4	30'	0,2752179	465,5	0,9613819	130,5	30'	
29'	0,2669581	466,3	0,9691082	129,5	31'	0,2753577	465,4	0,9613418	130,6	1'	
30'	0,2670982		0,9691694	129,6	30'	0,2754976	465,3	0,9613018	130,6	30'	
30'	0,2672384		0,9692305	129,6	30'	0,2756374		0,9612617	130,7	0'	
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.		

74 deg.

16 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,2756374	466,0	0,9612617	133,7	60'	0,2840153	464,8	0,9588197	137,8
30'	0,2757772	465,9	0,9612216		30'	0,2841547		0,9587783	137,8
1'	0,2759170	465,8	0,9611815	133,8	50'	0,2842942		0,9587370	137,8
30'	0,2760567	465,9	0,9611414	133,9	30'	0,2844336		0,9586957	137,7
2'	0,2761965	466,0	0,9611012	134,0	50'	0,2845731		0,9586543	138,0
30'	0,2763363	465,9	0,9610610	134,1	30'	0,2847125		0,9586129	138,1
30'	0,2764761	465,9	0,9610208	134,2	50'	0,2848519	464,7	0,9585715	138,1
30'	0,2766158	465,9	0,9609805		30'	0,2849914		0,9585301	138,2
40'	0,2767556	466,0	0,9609403		50'	0,2851308		0,9584886	138,3
30'	0,2768953	465,9	0,9609001		30'	0,2852702		0,9584471	138,4
50'	0,2770352	465,8	0,9608598	134,3	50'	0,2854096		0,9584056	138,5
30'	0,2771749		0,9608197	134,4	30'	0,2855490	464,6	0,9583640	138,5
60'	0,2773147	465,7	0,9607792	134,5	50'	0,2856884	464,5	0,9583225	138,6
30'	0,2774544		0,9607389	134,6	30'	0,2858278		0,9582810	138,6
70'	0,2775941	465,8	0,9606985	134,7	50'	0,2859671		0,9582394	138,7
30'	0,2777338		0,9606581		30'	0,2861064		0,9581978	138,8
80'	0,2778736	465,7	0,9606177	134,8	50'	0,2862458		0,9581562	138,8
30'	0,2780133		0,9605773	134,9	30'	0,2863852		0,9581146	138,9
90'	0,2781530		0,9605368	135,0	50'	0,2865246		0,9580729	139,0
30'	0,2782927		0,9604963		30'	0,2866639		0,9580312	139,1
100'	0,2784324		0,9604558		50'	0,2868032		0,9579895	139,2
30'	0,2785721	465,6	0,9604153	135,1	30'	0,2869426	464,4	0,9579477	139,2
110'	0,2787118	465,5	0,9603748	135,2	40'	0,2870819	464,3	0,9579060	139,3
30'	0,2788514		0,9603342		30'	0,2872212		0,9578643	139,3
120'	0,2789911		0,9602937	135,3	40'	0,2873605		0,9578225	139,3
30'	0,2791307		0,9602531	135,4	30'	0,2874998		0,9577807	139,4
130'	0,2792704		0,9602125	135,5	40'	0,2876391		0,9577389	139,5
30'	0,2794101		0,9601719	135,6	30'	0,2877784		0,9576971	139,6
140'	0,2795497		0,9601312	135,7	40'	0,2879177		0,9576552	139,7
30'	0,2796894		0,9600908		30'	0,2880570		0,9576133	139,7
150'	0,2798290		0,9600498		40'	0,2881963	464,2	0,9575714	139,8
30'	0,2799687	465,4	0,9600091		30'	0,2883356		0,9575295	139,9
160'	0,2801083		0,9599684	135,8	40'	0,2884748		0,9574875	140,0
30'	0,2802479		0,9599277	135,9	30'	0,2886140		0,9574455	140,1
170'	0,2803875		0,9598869	136,0	40'	0,2887533		0,9574035	140,2
30'	0,2805271		0,9598461		30'	0,2888926		0,9573615	140,3
180'	0,2806667		0,9598053	136,1	40'	0,2890318		0,9573195	140,4
30'	0,2808063		0,9597645	136,2	30'	0,2891711		0,9572774	140,5

73 deg.

17 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"		
0	0,2923717	463,7	0,9563048	141,8	60	30	0,3007058	462,3	0,9537169	145,8	30	0
3	0,2925103	463,0	0,9562623	141,9	3	3	0,3008445		0,9536732	145,9	3	3
1	0,2926499	463,5	0,9562197	142,0	59	31	0,3009832		0,9536294	146,0	29	1
3	0,2927890		0,9561771	142,1	3	3	0,3011219		0,9535855	146,1	3	3
2	0,2929283		0,9561345	142,2	58	32	0,3012606		0,9535418	146,2	28	2
3	0,2930670		0,9560918		3	3	0,3013993		0,9534980		3	3
3	0,2932061		0,9560492		57	33	0,3015380	462,2	0,9534541		27	3
0	0,2933452		0,9560065		3	3	0,3016767		0,9534102		3	3
4	0,2934842		0,9559639	142,3	56	34	0,3018153		0,9533664	146,3	26	3
3	0,2936233		0,9559212	142,4	3	3	0,3019539		0,9533225	146,4	3	3
5	0,2937623	463,4	0,9558785	142,5	55	35	0,3020926		0,9532786		25	5
3	0,2939013	463,3	0,9558358	142,6	3	3	0,3022313	462,1	0,9532347	146,5	3	3
6	0,2940403		0,9557930	142,7	54	36	0,3023699		0,9531907	146,6	24	6
3	0,2941793		0,9557502		3	3	0,3025085	462,1	0,9531467	146,7	3	3
7	0,2943183		0,9557074	142,8	53	37	0,3026471	462,2	0,9531027	146,8	23	7
3	0,2944573		0,9556645		3	3	0,3027858	462,1	0,9530587	146,9	3	3
8	0,2945963		0,9556217	142,9	52	38	0,3029244	462,0	0,9530146	147,0	22	8
3	0,2947353		0,9555788	143,0	3	3	0,3030630		0,9529705		3	3
9	0,2948743	463,2	0,9555360	143,1	51	39	0,3032016		0,9529264	147,1	21	9
3	0,2950132		0,9554931	143,2	3	3	0,3033402	461,9	0,9528823	147,2	3	3
10	0,2951522		0,9554502	143,3	50	40	0,3034788	461,8	0,9528382	147,3	20	10
3	0,2952912		0,9554072	143,4	3	3	0,3036173	461,9	0,9527941	147,4	3	3
11	0,2954302		0,9553643	143,5	49	41	0,3037559	461,8	0,9527500	147,5	19	11
3	0,2955692		0,9553213	143,6	3	3	0,3038945	461,9	0,9527059	147,6	3	3
12	0,2957081		0,9552783	143,7	48	42	0,3040331	461,8	0,9526618	147,7	18	12
3	0,2958470		0,9552352		3	3	0,3041717		0,9526177		3	3
13	0,2959859		0,9551922	143,8	47	43	0,3043102	461,7	0,9525736	147,8	17	13
3	0,2961249	463,1	0,9551492	143,9	3	3	0,3044487		0,9525295	147,9	3	3
14	0,2962638	463,0	0,9551061	144,0	46	44	0,3045873	461,8	0,9524854	148,0	16	14
3	0,2964027		0,9550630	144,1	3	3	0,3047257		0,9524413		3	3
15	0,2965416		0,9550199	144,2	45	45	0,3048643	461,7	0,9523972	148,1	15	15
3	0,2966805		0,9549768	144,3	3	3	0,3050028		0,9523531	148,2	3	3
16	0,2968194	462,9	0,9549336	144,4	46	46	0,3051413	461,6	0,9523090	148,3	14	16
3	0,2969582	462,8	0,9548904	144,5	3	3	0,3052797		0,9522649		3	3
17	0,2970971	462,9	0,9548472	144,6	47	47	0,3054183	461,5	0,9522208	148,4	13	17
3	0,2972360	462,9	0,9548040	144,7	3	3	0,3055568		0,9521767		3	3
18	0,2973749	462,8	0,9547607	144,8	42	48	0,3056953	461,4	0,9521326	148,5	12	18
3	0,2975137		0,9547174	144,9	3	3	0,3058338		0,9520885		3	3
19	0,2976525		0,9546742	145,0	41	49	0,3059723	461,3	0,9520444	148,6	11	19
3	0,2977913	462,7	0,9546309	145,1	3	3	0,3061108		0,9520003	148,7	3	3
20	0,2979303		0,9545876	145,2	40	50	0,3062492	461,2	0,9519562	148,8	10	20
3	0,2980691		0,9545443	145,3	3	3	0,3063877		0,9519121		3	3
21	0,2982079	462,8	0,9545009	145,4	39	51	0,3065261	461,1	0,9518680	148,9	9	21
3	0,2983467		0,9544575	145,5	3	3	0,3066645		0,9518239		3	3
22	0,2984855	462,7	0,9544141	145,6	38	52	0,3068030	461,0	0,9517798	149,0	8	22
3	0,2986244		0,9543707	145,7	3	3	0,3069414		0,9517357		3	3
23	0,2987632		0,9543272	145,8	37	53	0,3070798	460,9	0,9516916	149,1	7	23
3	0,2989020		0,9542838	145,9	3	3	0,3072182		0,9516475		3	3
24	0,2990408		0,9542403	146,0	36	54	0,3073566	460,8	0,9516034	149,2	6	24
3	0,2991796	462,6	0,9541968	146,1	3	3	0,3074950		0,9515593		3	3
25	0,2993184	462,5	0,9541533	146,2	35	55	0,3076334	460,7	0,9515152	149,3	5	25
3	0,2994571		0,9541098	146,3	3	3	0,3077718		0,9514711		3	3
26	0,2995959		0,9540662	146,4	34	56	0,3079102	460,6	0,9514270	149,4	4	26
3	0,2997347		0,9540226	146,5	3	3	0,3080485		0,9513829		3	3
27	0,2998734		0,9539790	146,6	33	57	0,3081869	460,5	0,9513388	149,5	3	27
3	0,3000122		0,9539354	146,7	3	3	0,3083252		0,9512947		3	3
28	0,3001509		0,9538917	146,8	32	58	0,3084635	460,4	0,9512506	149,6	2	28
3	0,3002897	462,4	0,9538480	146,9	3	3	0,3086019		0,9512065		3	3
29	0,3004284	462,3	0,9538043	147,0	31	59	0,3087403	460,3	0,9511624	149,7	1	29
3	0,3005671		0,9537606	147,1	3	3	0,3088786		0,9511183		3	3
30	0,3007058		0,9537169	147,2	30	60	0,3090170	460,2	0,9510742	149,8	0	30
	co-sin.	10"	sin.	10"			co-sin.	10"	sin.	10"		
		diff.		diff.				diff.		diff.		

72 deg.

18 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,3090170		0,9510566		60'	30'	0,3173047		0,9483236		30'		0,3173047		0,9483236		30'
30'	0,3091553	461,0	0,9510115	149,8	30'	30'	0,3174426	459,7	0,9482775	153,8	30'		0,3174426	459,7	0,9482775	153,8	30'
1'	0,3092936		0,9509666	149,9	50'	31'	0,3175805		0,9482313	153,9	20'		0,3175805		0,9482313	153,9	20'
30'	0,3094319		0,9509216	150,0	30'	30'	0,3177184		0,9481851	154,0	30'		0,3177184		0,9481851	154,0	30'
2'	0,3095702		0,9508766	150,1	58'	32'	0,3178563		0,9481389	154,1	28'		0,3178563		0,9481389	154,1	28'
30'	0,3097085		0,9508315	150,2	30'	30'	0,3179942		0,9480926	154,2	30'		0,3179942		0,9480926	154,2	30'
3'	0,3098468		0,9507865	150,3	57'	33'	0,3181321		0,9480464	154,3	27'		0,3181321		0,9480464	154,3	27'
30'	0,3099851		0,9507414	150,4	30'	30'	0,3182700		0,9480001	154,4	30'		0,3182700		0,9480001	154,4	30'
4'	0,3101234	460,9	0,9506963	150,5	56'	34'	0,3184079	459,6	0,9479538	154,5	26'		0,3184079	459,6	0,9479538	154,5	26'
30'	0,3102617	460,8	0,9506512	150,5	30'	30'	0,3185458	459,5	0,9479075	154,5	30'		0,3185458	459,5	0,9479075	154,5	30'
5'	0,3103999		0,9506060	150,6	55'	35'	0,3186836		0,9478611	154,6	25'		0,3186836		0,9478611	154,6	25'
30'	0,3105381		0,9505609	150,6	30'	30'	0,3188215		0,9478148	154,6	30'		0,3188215		0,9478148	154,6	30'
6'	0,3106764		0,9505157	150,7	54'	36'	0,3189593		0,9477684	154,7	24'		0,3189593		0,9477684	154,7	24'
30'	0,3108147		0,9504705	150,7	30'	30'	0,3190972	459,4	0,9477220	154,7	30'		0,3190972	459,4	0,9477220	154,7	30'
7'	0,3109529		0,9504253	150,8	53'	37'	0,3192350	459,3	0,9476756	154,8	23'		0,3192350	459,3	0,9476756	154,8	23'
30'	0,3110912		0,9503801	150,9	30'	30'	0,3193728		0,9476292	154,8	30'		0,3193728		0,9476292	154,8	30'
8'	0,3112294	460,7	0,9503348	151,0	52'	38'	0,3195106	459,4	0,9475827	154,9	22'		0,3195106	459,4	0,9475827	154,9	22'
30'	0,3113676		0,9502895	151,0	30'	30'	0,3196485	459,5	0,9475362	155,0	30'		0,3196485	459,5	0,9475362	155,0	30'
9'	0,3115058		0,9502442	151,1	51'	39'	0,3197863	459,4	0,9474897	155,1	21'		0,3197863	459,4	0,9474897	155,1	21'
30'	0,3116440		0,9501989	151,1	30'	30'	0,3199241	459,3	0,9474432	155,2	30'		0,3199241	459,3	0,9474432	155,2	30'
10'	0,3117822		0,9501536	151,2	50'	40'	0,3200619	459,2	0,9473966	155,3	20'		0,3200619	459,2	0,9473966	155,3	20'
30'	0,3119204	460,6	0,9501083	151,2	30'	30'	0,3201997	459,2	0,9473500	155,3	30'		0,3201997	459,2	0,9473500	155,3	30'
11'	0,3120586	460,5	0,9500629	151,3	40'	41'	0,3203374	459,3	0,9473035	155,4	19'		0,3203374	459,3	0,9473035	155,4	19'
30'	0,3121967		0,9500175	151,4	30'	30'	0,3204752	459,2	0,9472569	155,4	30'		0,3204752	459,2	0,9472569	155,4	30'
12'	0,3123349		0,9499721	151,5	48'	42'	0,3206130	459,2	0,9472103	155,5	18'		0,3206130	459,2	0,9472103	155,5	18'
30'	0,3124731		0,9499267	151,6	30'	30'	0,3207508		0,9471637	155,5	30'		0,3207508		0,9471637	155,5	30'
13'	0,3126112		0,9498812	151,7	47'	43'	0,3208885		0,9471170	155,6	17'		0,3208885		0,9471170	155,6	17'
30'	0,3127493		0,9498357	151,7	30'	30'	0,3210262		0,9470703	155,7	30'		0,3210262		0,9470703	155,7	30'
14'	0,3128875		0,9497902	151,8	46'	44'	0,3211640	459,1	0,9470236	155,8	16'		0,3211640	459,1	0,9470236	155,8	16'
30'	0,3130257	460,4	0,9497447	151,8	30'	30'	0,3213018	459,0	0,9469769	155,8	30'		0,3213018	459,0	0,9469769	155,8	30'
15'	0,3131638	460,3	0,9496991	151,9	45'	45'	0,3214395	459,0	0,9469301	155,9	15'		0,3214395	459,0	0,9469301	155,9	15'
30'	0,3133019	460,4	0,9496536	152,0	30'	30'	0,3215772	458,9	0,9468834	155,9	30'		0,3215772	458,9	0,9468834	155,9	30'
16'	0,3134400	460,5	0,9496080	152,1	44'	46'	0,3217149	458,8	0,9468366	156,0	14'		0,3217149	458,8	0,9468366	156,0	14'
30'	0,3135782	460,4	0,9495624	152,2	30'	30'	0,3218526	458,7	0,9467898	156,1	30'		0,3218526	458,7	0,9467898	156,1	30'
17'	0,3137163	460,3	0,9495168	152,2	43'	47'	0,3219903	458,6	0,9467430	156,2	13'		0,3219903	458,6	0,9467430	156,2	13'
30'	0,3138544		0,9494712	152,3	30'	30'	0,3221280	458,5	0,9466962	156,3	30'		0,3221280	458,5	0,9466962	156,3	30'
18'	0,3139925	460,2	0,9494255	152,4	42'	48'	0,3222657	458,4	0,9466493	156,3	12'		0,3222657	458,4	0,9466493	156,3	12'
30'	0,3141305		0,9493798	152,5	30'	30'	0,3224034	458,3	0,9466024	156,4	30'		0,3224034	458,3	0,9466024	156,4	30'
19'	0,3142686	460,3	0,9493341	152,5	41'	49'	0,3225411	458,2	0,9465555	156,5	11'		0,3225411	458,2	0,9465555	156,5	11'
30'	0,3144067		0,9492884	152,6	30'	30'	0,3226788	458,1	0,9465086	156,5	30'		0,3226788	458,1	0,9465086	156,5	30'
20'	0,3145448	460,2	0,9492426	152,6	40'	50'	0,3228164	458,0	0,9464616	156,6	10'		0,3228164	458,0	0,9464616	156,6	10'
30'	0,3146829	460,1	0,9491969	152,7	30'	30'	0,3229541	457,9	0,9464146	156,7	30'		0,3229541	457,9	0,9464146	156,7	30'
21'	0,3148209	460,0	0,9491511	152,7	30'	51'	0,3230917	457,8	0,9463676	156,8	9'		0,3230917	457,8	0,9463676	156,8	9'
30'	0,3149589	460,1	0,9491053	152,8	30'	30'	0,3232293	457,7	0,9463206	156,8	30'		0,3232293	457,7	0,9463206	156,8	30'
22'	0,3150969	460,2	0,9490595	152,8	38'	52'	0,3233670	457,6	0,9462736	156,9	30'		0,3233670	457,6	0,9462736	156,9	30'
30'	0,3152350		0,9490137	152,9	30'	30'	0,3235046	457,5	0,9462266	157,0	30'		0,3235046	457,5	0,9462266	157,0	30'
23'	0,3153730	460,1	0,9489678	153,0	30'	53'	0,3236422	457,4	0,9461795	157,1	7'		0,3236422	457,4	0,9461795	157,1	7'
30'	0,3155110	460,0	0,9489219	153,1	30'	30'	0,3237798	457,3	0,9461324	157,2	30'		0,3237798	457,3	0,9461324	157,2	30'
24'	0,3156490		0,9488760	153,2	36'	54'	0,3239174	457,2	0,9460853	157,3	6'		0,3239174	457,2	0,9460853	157,3	6'
30'	0,3157870		0,9488301	153,2	30'	30'	0,3240550	457,1	0,9460382	157,4	30'		0,3240550	457,1	0,9460382	157,4	30'
25'	0,3159250		0,9487841	153,3	35'	55'	0,3241926	457,0	0,9459910	157,5	5'		0,3241926	457,0	0,9459910	157,5	5'
30'	0,3160630		0,9487381	153,4	30'	30'	0,3243302	456,9	0,9459439	157,6	30'		0,3243302	456,9	0,9459439	157,6	30'
26'	0,3162010	459,9	0,9486922	153,5	34'	56'	0,3244678	456,8	0,9458967	157,7	4'		0,3244678	456,8	0,9458967	157,7	4'
30'	0,3163390	459,8	0,9486462	153,5	30'	30'	0,3246053	456,7	0,9458495	157,8	30'		0,3246053	456,7	0,9458495	157,8	30'
27'	0,3164770		0,9486002	153,6	33'	57'	0,3247429	456,6	0,9458023	157,9	30'		0,3247429	456,6	0,9458023	157,9	30'
30'	0,3166150		0,9485542	153,7	30'	30'	0,3248805	456,5	0,9457551	158,0	30'		0,3248805	456,5	0,9457551	158,0	30'
28'	0,3167529		0,9485081	153,7	32'	58'	0,3250180	456,4	0,9457078	158,1	30'		0,3250180	456,4	0,9457078	158,1	30'
30'	0,3168909		0,9484620	153,8	30'	30'	0,3251556	456,3	0,9456605	158,2	30'		0,3251556	456,3	0,9456605	158,2	30'
29'	0,3170288		0,9484159	153,8	31'	59'	0,3252931	456,2	0,9456132	158,3	30'		0,3252931	456,2	0,9456132	158,3	30'
30'	0,3171668		0,9483693	153,8	30'	30'	0,3254307	456,1	0,9455659	158,4	30'		0,3254307	456,1	0,9455659	158,4	30'
30'	0,3173047		0,9483236	153,8	30'	60'	0,3255682	456,0	0,9455185	158,5	30'		0,3255682	456,0	0,9455185	158,5	30'
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.	

71 deg.



19 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,3255682	458,3	0,9455185	157,8	60'	30'	0,3338069	456,8	0,9426415	162,0	30'
30'	0,3257057		0,9454712	157,9	30'	30'	0,3337439	456,9	0,9425929	162,1	30'
1'	0,3258432	458,2	0,9454238	158,0	59'	31'	0,3340810	457,0	0,9425443	162,2	29'
30'	0,3259807		0,9453764	158,1	58'	32'	0,3342181	456,9	0,9424957	162,3	28'
2'	0,3261182	458,3	0,9453290	158,2	57'	33'	0,3343552	456,8	0,9424471	162,4	27'
30'	0,3262557		0,9452815	158,3	56'	34'	0,3344922	456,7	0,9423984	162,5	26'
3'	0,3263932	458,2	0,9452341	158,4	55'	35'	0,3346293	456,6	0,9423498	162,6	25'
30'	0,3265307		0,9451866	158,5	54'	36'	0,3347663	456,5	0,9423011	162,7	24'
4'	0,3266681	458,1	0,9451391	158,6	53'	37'	0,3349034	456,4	0,9422524	162,8	23'
30'	0,3268055		0,9450915	158,7	52'	38'	0,3350404	456,3	0,9422037	162,9	22'
5'	0,3269430	458,0	0,9450440	158,8	51'	39'	0,3351775	456,2	0,9421550	163,0	21'
30'	0,3270805		0,9449965	158,9	50'	40'	0,3353145	456,1	0,9421063	163,1	20'
6'	0,3272179	457,9	0,9449489	159,0	49'	41'	0,3354516	456,0	0,9420575	163,2	19'
30'	0,3273553		0,9449013	159,1	48'	42'	0,3355886	455,9	0,9420087	163,3	18'
7'	0,3274928	457,8	0,9448537	159,2	47'	43'	0,3357256	455,8	0,9419599	163,4	17'
30'	0,3276302		0,9448061	159,3	46'	44'	0,3358626	455,7	0,9419111	163,5	16'
8'	0,3277676	457,7	0,9447584	159,4	45'	45'	0,3359996	455,6	0,9418622	163,6	15'
30'	0,3279050		0,9447107	159,5	44'	46'	0,3361365	455,5	0,9418133	163,7	14'
9'	0,3280424	457,6	0,9446630	159,6	43'	47'	0,3362735	455,4	0,9417644	163,8	13'
30'	0,3281798		0,9446153	159,7	42'	48'	0,3364105	455,3	0,9417154	163,9	12'
10'	0,3283172	457,5	0,9445675	159,8	41'	49'	0,3365475	455,2	0,9416665	164,0	11'
30'	0,3284546		0,9445197	159,9	40'	50'	0,3366845	455,1	0,9416175	164,1	10'
11'	0,3285919	457,4	0,9444720	160,0	39'	51'	0,3368214	455,0	0,9415685	164,2	9'
30'	0,3287292		0,9444242	160,1	38'	52'	0,3369584	454,9	0,9415195	164,3	8'
12'	0,3288666	457,3	0,9443764	160,2	37'	53'	0,3370953	454,8	0,9414705	164,4	7'
30'	0,3290040		0,9443286	160,3	36'	54'	0,3372322	454,7	0,9414215	164,5	6'
13'	0,3291413	457,2	0,9442807	160,4	35'	55'	0,3373691	454,6	0,9413724	164,6	5'
30'	0,3292786		0,9442328	160,5	34'	56'	0,3375060	454,5	0,9413233	164,7	4'
14'	0,3294160	457,1	0,9441849	160,6	33'	57'	0,3376429	454,4	0,9412742	164,8	3'
30'	0,3295533		0,9441370	160,7	32'	58'	0,3377798	454,3	0,9412251	164,9	2'
15'	0,3296906	457,0	0,9440890	160,8	31'	59'	0,3379167	454,2	0,9411760	165,0	1'
30'	0,3298280		0,9440411	160,9	30'	60'	0,3380536	454,1	0,9411268	165,1	0'
16'	0,3299653	456,9	0,9439931	161,0	29'		0,3381905	454,0	0,9410777	165,2	
30'	0,3301026		0,9439451	161,1	28'		0,3383273	453,9	0,9410285	165,3	
17'	0,3302398	456,8	0,9438971	161,2	27'		0,3384642	453,8	0,9409793	165,4	
30'	0,3303771		0,9438490	161,3	26'		0,3386011	453,7	0,9409301	165,5	
18'	0,3305144	456,7	0,9438010	161,4	25'		0,3387379	453,6	0,9408808	165,6	
30'	0,3306517		0,9437529	161,5	24'		0,3388748	453,5	0,9408315	165,7	
19'	0,3307889	456,6	0,9437048	161,6	23'		0,3390116	453,4	0,9407822	165,8	
30'	0,3309261		0,9436567	161,7	22'		0,3391484	453,3	0,9407329	165,9	
20'	0,3310634	456,5	0,9436085	161,8	21'		0,3392852	453,2	0,9406835	166,0	
30'	0,3312006		0,9435603	161,9	20'		0,3394220	453,1	0,9406342	166,1	
21'	0,3313379	456,4	0,9435121	162,0	19'		0,3395588	453,0	0,9405848	166,2	
30'	0,3314751		0,9434639	162,1	18'		0,3396957	452,9	0,9405354	166,3	
22'	0,3316123	456,3	0,9434157	162,2	17'		0,3398325	452,8	0,9404860	166,4	
30'	0,3317495		0,9433675	162,3	16'		0,3399693	452,7	0,9404366	166,5	
23'	0,3318867	456,2	0,9433192	162,4	15'		0,3401060	452,6	0,9403871	166,6	
30'	0,3320239		0,9432709	162,5	14'		0,3402428	452,5	0,9403376	166,7	
24'	0,3321611	456,1	0,9432225	162,6	13'		0,3403795	452,4	0,9402881	166,8	
30'	0,3322983		0,9431743	162,7	12'		0,3405164	452,3	0,9402385	166,9	
25'	0,3324355	456,0	0,9431260	162,8	11'		0,3406531	452,2	0,9401889	167,0	
30'	0,3325726		0,9430777	162,9	10'		0,3407898	452,1	0,9401394	167,1	
26'	0,3327098	455,9	0,9430293	163,0	9'		0,3409265	452,0	0,9400899	167,2	
30'	0,3328470		0,9429809	163,1	8'		0,3410633	451,9	0,9400403	167,3	
27'	0,3329841	455,8	0,9429325	163,2	7'		0,3412000	451,8	0,9399907	167,4	
30'	0,3331212		0,9428841	163,3	6'		0,3413367	451,7	0,9399411	167,5	
28'	0,3332584	455,7	0,9428356	163,4	5'		0,3414734	451,6	0,9398915	167,6	
30'	0,3333955		0,9427871	163,5	4'		0,3416101	451,5	0,9398419	167,7	
29'	0,3335326	455,6	0,9427386	163,6	3'		0,3417468	451,4	0,9397922	167,8	
30'	0,3336698		0,9426901	163,7	2'		0,3418835	451,3	0,9397426	167,9	
30'	0,3338069		0,9426415	163,8	1'		0,3420201	451,2	0,9396929	168,0	
	co-sin.	10''	sin.	10''			co-sin.	10''	sin.	10''	
		diff.		diff.				diff.		diff.	

70 deg

20 deg.

sin.		diff. 10''	co-sin.		diff. 10''	sin.		diff. 10''	co-sin.		diff. 10''	
0'	0,3420201	455,5	0,9396926	165,8	60'	30'	0,3502074	454,2	0,9366722	169,8	30'	
36	0,3421558		0,9396429		36'	36'	0,3503436		0,9365213		36'	
1'	0,3422935		0,9395931		165,9	50'	31'		0,3504798		0,9363703	29'
36	0,3424302		0,9395433		166,0	36'	36'		0,3506161		0,9362193	170,0
2'	0,3425658	455,4	0,9394935	166,2	58'	32'	0,3507523	454,0	0,9360683	170,1	28'	
36	0,3427034		0,9394436		36'	36'	0,3508885		0,9364172		36'	
3'	0,3428400		0,9393938		166,3	57'	33'		0,3510246		0,9362662	27'
36	0,3429767		0,9393439		166,4	36'	36'		0,3511608		0,9361151	170,3
4'	0,3431133	455,3	0,9392940	166,4	56'	34'	0,3512970	453,9	0,9362640	170,4	26'	
36	0,3432499		0,9392441		166,5	36'	36'		0,3514331		0,9362129	25'
5'	0,3433865		0,9391942		166,5	55'	35'		0,3515693		0,9361618	24'
36	0,3435231		0,9391443		166,6	36'	36'		0,3517055		0,9361107	170,5
6'	0,3436597	455,2	0,9390943	166,7	54'	36'	0,3518416	453,8	0,9360595	170,6	24'	
36	0,3437963		0,9390443		166,7	36'	36'		0,3519778		0,9360083	23'
7'	0,3439329		0,9389943		166,8	53'	37'		0,3521139		0,9359571	170,8
36	0,3440695		0,9389442		166,9	36'	36'		0,3522501		0,9359059	36'
8'	0,3442060	455,1	0,9388943	167,0	52'	38'	0,3523862	453,7	0,9358546	170,9	22'	
36	0,3443425		0,9388441		167,1	36'	36'		0,3525223		0,9358034	21'
9'	0,3444791		0,9387940		167,2	51'	39'		0,3526584		0,9357521	171,0
36	0,3446156		0,9387439		167,2	36'	36'		0,3527945		0,9357008	171,1
10'	0,3447521	455,0	0,9386937	167,3	50'	40'	0,3529306	453,5	0,9356495	171,2	20'	
36	0,3448887		0,9386435		167,3	36'	36'		0,3530667		0,9355981	19'
11'	0,3450252		0,9385934		167,4	40'	41'		0,3532027		0,9355468	18'
36	0,3451617		0,9385432		167,4	36'	36'		0,3533388		0,9354954	171,4
12'	0,3452982	454,9	0,9384930	167,5	48'	42'	0,3534748	453,3	0,9354440	171,5	18'	
36	0,3454347		0,9384428		167,5	36'	36'		0,3536109		0,9353926	17'
13'	0,3455712		0,9383925		167,5	47'	43'		0,3537469		0,9353411	16'
36	0,3457077		0,9383422		167,6	36'	36'		0,3538830		0,9352897	171,6
14'	0,3458441	454,8	0,9382919	167,7	46'	44'	0,3540190	453,2	0,9352382	171,7	16'	
36	0,3459805		0,9382416		167,7	36'	36'		0,3541550		0,9351867	15'
15'	0,3461171		0,9381913		167,8	45'	45'		0,3542910		0,9351352	171,8
36	0,3462536		0,9381410		167,9	36'	36'		0,3544270		0,9350837	171,9
16'	0,3463900	454,7	0,9380906	168,0	44'	46'	0,3545630	453,1	0,9350321	172,0	14'	
36	0,3465264		0,9380402		168,0	36'	36'		0,3546990		0,9349805	172,1
17'	0,3466628		0,9379898		168,2	43'	47'		0,3548350		0,9349289	172,2
36	0,3467992		0,9379393		168,3	36'	36'		0,3549710		0,9348772	36'
18'	0,3469357	454,6	0,9378893	168,4	42'	48'	0,3551070	453,2	0,9348256	172,3	12'	
36	0,3470721		0,9378384		168,3	36'	36'		0,3552429		0,9347740	36'
19'	0,3472085		0,9377879		168,4	41'	49'		0,3553789		0,9347223	171,1
36	0,3473448		0,9377374		168,4	36'	36'		0,3555149		0,9346706	172,3
20'	0,3474812	454,5	0,9376869	168,5	40'	50'	0,3556508	453,0	0,9346189	172,4	36'	
36	0,3476176		0,9376365		168,5	36'	36'		0,3557867		0,9345672	172,5
21'	0,3477540		0,9375858		168,6	36'	51'		0,3559225		0,9345154	172,6
36	0,3478903		0,9375352		168,7	36'	36'		0,3560585		0,9344636	172,7
22'	0,3480267	454,4	0,9374846	168,8	38'	52'	0,3561944	452,9	0,9344118	173,0	8'	
36	0,3481631		0,9374340		168,9	36'	36'		0,3563303		0,9343600	36'
23'	0,3482994		0,9373833		169,0	37'	53'		0,3564662		0,9343082	172,8
36	0,3484357		0,9373326		169,0	36'	36'		0,3566021		0,9342564	172,9
24'	0,3485720	454,3	0,9372819	169,1	36'	54'	0,3567380	452,8	0,9342045	173,0	5'	
36	0,3487083		0,9372312		169,1	36'	36'		0,3568739		0,9341526	173,1
25'	0,3488447		0,9371805		169,2	35'	55'		0,3570097		0,9341007	173,2
36	0,3489810		0,9371298		169,2	36'	36'		0,3571456		0,9340488	5'
26'	0,3491173	454,2	0,9370790	169,3	34'	56'	0,3572814	452,7	0,9339968	173,3	4'	
36	0,3492536		0,9370282		169,4	36'	36'		0,3574173		0,9339448	36'
27'	0,3493898		0,9369774		169,5	33'	57'		0,3575531		0,9338928	173,4
36	0,3495261		0,9369265		169,5	36'	58'		0,3576890		0,9338407	173,5
28'	0,3496624	454,1	0,9368757	169,6	32'	59'	0,3578248	452,6	0,9337887	173,6	36'	
36	0,3497987		0,9368249		169,6	36'	36'		0,3579606		0,9337367	2'
29'	0,3499349		0,9367740		169,7	31'	59'		0,3580964		0,9336846	1'
36	0,3500712		0,9367231		169,7	36'	36'		0,3582322		0,9336325	36'
30'	0,3502074	454,0	0,9366722	169,8	30'	60'	0,3583679	452,6	0,9335804	173,7	0'	
36	0,3503436		0,9366213		169,8	36'	36'		0,3585037		0,9335283	36'
31'	0,3504798		0,9365703		169,9	36'	36'		0,3586395		0,9334762	36'
36	0,3506161		0,9365193		170,0	36'	36'		0,3587753		0,9334241	36'

69 deg.

21 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,3583679	452,7	0,9335804	173,8	60'	30'	0,3665012	451,0	0,9304175	177,7	30'		0,3665012	451,0	0,9304175	177,7
30'	0,3585037	452,6	0,9335283	173,9	30'	30'	0,3666366		0,9303642		30'		0,3666366		0,9303642	
1'	0,3586375	452,5	0,9334761	174,0	59'	31'	0,3667719		0,9303103		29'		0,3667719		0,9303103	
30'	0,3587735		0,9334239		30'	32'	0,3669072		0,9302576	177,8	30'		0,3669072		0,9302576	
2'	0,3589110		0,9333717		58'	32'	0,3670425		0,9302042	177,9	28'		0,3670425		0,9302042	
30'	0,3590467		0,9333195	174,1	30'	30'	0,3671778	450,9	0,9301508	178,1	30'		0,3671778	450,9	0,9301508	
30'	0,3591825		0,9332673	174,2	57'	33'	0,3673130	450,8	0,9300974	178,2	27'		0,3673130	450,8	0,9300974	
30'	0,3593182		0,9332151		30'	30'	0,3674483		0,9300440		30'		0,3674483		0,9300440	
4'	0,3594540	452,4	0,9331628	174,3	56'	34'	0,3675836		0,9299905	178,3	26'		0,3675836		0,9299905	
30'	0,3595897	452,3	0,9331105	174,4	30'	30'	0,3677189		0,9299370		30'		0,3677189		0,9299370	
50'	0,3597254		0,9330582	174,5	55'	35'	0,3678541		0,9298835		25'		0,3678541		0,9298835	
30'	0,3598611		0,9330059	174,6	30'	30'	0,3679894		0,9298300		30'		0,3679894		0,9298300	
60'	0,3599968		0,9329535	174,7	54'	36'	0,3681246	450,7	0,9297765	178,4	24'		0,3681246	450,7	0,9297765	
30'	0,3601325		0,9329011		30'	30'	0,3682598		0,9297230	178,5	23'		0,3682598		0,9297230	
7'	0,3602682	452,2	0,9328487		53'	37'	0,3683950		0,9296694	178,6	22'		0,3683950		0,9296694	
30'	0,3604039		0,9327963		30'	30'	0,3685302		0,9296158		30'		0,3685302		0,9296158	
80'	0,3605395		0,9327439	174,8	52'	38'	0,3686654		0,9295622	178,8	20'		0,3686654		0,9295622	
30'	0,3606751		0,9326915	174,9	30'	30'	0,3688006		0,9295086	178,9	19'		0,3688006		0,9295086	
90'	0,3608108		0,9326390	175,0	51'	39'	0,3689358		0,9294549	179,0	18'		0,3689358		0,9294549	
30'	0,3609465		0,9325865	175,1	30'	30'	0,3690710	450,6	0,9294012		30'		0,3690710	450,6	0,9294012	
10'	0,3610821	452,1	0,9325340	175,2	50'	40'	0,3692061	450,5	0,9293475	179,1	17'		0,3692061	450,5	0,9293475	
30'	0,3612177	452,1	0,9324815		30'	30'	0,3693413		0,9292938		30'		0,3693413		0,9292938	
11'	0,3613534	452,2	0,9324289	175,3	49'	41'	0,3694765		0,9292401	179,2	16'		0,3694765		0,9292401	
30'	0,3614890	452,1	0,9323763	175,4	30'	30'	0,3696117	450,4	0,9291864	179,3	15'		0,3696117	450,4	0,9291864	
12'	0,3616246	452,0	0,9323238	175,5	48'	42'	0,3697468	450,3	0,9291326	179,4	14'		0,3697468	450,3	0,9291326	
30'	0,3617602	451,9	0,9322712	175,6	30'	30'	0,3698819		0,9290788		30'		0,3698819		0,9290788	
13'	0,3618958	451,8	0,9322186	175,7	47'	43'	0,3700170		0,9290250	179,5	13'		0,3700170		0,9290250	
30'	0,3620314		0,9321660	175,8	30'	30'	0,3701521		0,9289712	179,6	12'		0,3701521		0,9289712	
14'	0,3621669		0,9321133	175,9	46'	44'	0,3702872		0,9289173	179,7	11'		0,3702872		0,9289173	
30'	0,3623025		0,9320606	176,0	30'	30'	0,3704223	450,2	0,9288634		30'		0,3704223	450,2	0,9288634	
15'	0,3624380		0,9320079	176,1	45'	45'	0,3705574		0,9288095		15'		0,3705574		0,9288095	
30'	0,3625735		0,9319552	176,2	30'	30'	0,3706925		0,9287556		30'		0,3706925		0,9287556	
16'	0,3627091		0,9319024	176,3	44'	46'	0,3708276		0,9287017	179,8	14'		0,3708276		0,9287017	
30'	0,3628447		0,9318496	176,4	30'	30'	0,3709627		0,9286478	179,9	13'		0,3709627		0,9286478	
17'	0,3629802	451,7	0,9317968	176,5	43'	47'	0,3710977		0,9285938	180,0	12'		0,3710977		0,9285938	
30'	0,3631157		0,9317440	176,6	30'	30'	0,3712327		0,9285398		30'		0,3712327		0,9285398	
18'	0,3632512		0,9316912	176,7	42'	48'	0,3713678		0,9284858	180,1	11'		0,3713678		0,9284858	
30'	0,3633867		0,9316383	176,8	30'	30'	0,3715029		0,9284318	180,2	10'		0,3715029		0,9284318	
19'	0,3635222		0,9315855	176,9	41'	49'	0,3716379		0,9283777		19'		0,3716379		0,9283777	
30'	0,3636577	451,6	0,9315326	177,0	30'	30'	0,3717729	450,1	0,9283236		30'		0,3717729	450,1	0,9283236	
20'	0,3637932	451,5	0,9314797	177,1	40'	50'	0,3719079	450,0	0,9282696	180,3	10'		0,3719079	450,0	0,9282696	
30'	0,3639287		0,9314268	177,2	30'	30'	0,3720429		0,9282155	180,4	9'		0,3720429		0,9282155	
21'	0,3640641		0,9313738	177,3	39'	51'	0,3721780		0,9281614	180,5	8'		0,3721780		0,9281614	
30'	0,3641995		0,9313209	177,4	30'	30'	0,3723130		0,9281073	180,6	7'		0,3723130		0,9281073	
22'	0,3643351		0,9312679	177,5	38'	52'	0,3724479	449,9	0,9280531	180,7	6'		0,3724479	449,9	0,9280531	
30'	0,3644705		0,9312149	177,6	30'	30'	0,3725829		0,9279989		30'		0,3725829		0,9279989	
23'	0,3646059	451,4	0,9311619	177,7	37'	53'	0,3727179		0,9279447	180,8	5'		0,3727179		0,9279447	
30'	0,3647414	451,3	0,9311089	177,8	30'	30'	0,3728529		0,9278904		30'		0,3728529		0,9278904	
24'	0,3648768		0,9310558	177,9	36'	54'	0,3729879		0,9278362		24'		0,3729879		0,9278362	
30'	0,3650122		0,9310027	178,0	30'	30'	0,3731228		0,9277820	180,9	4'		0,3731228		0,9277820	
25'	0,3651476		0,9309496	178,1	35'	55'	0,3732577	449,7	0,9277277	181,0	3'		0,3732577	449,7	0,9277277	
30'	0,3652830		0,9308964	178,2	30'	30'	0,3733926		0,9276734	181,1	2'		0,3733926		0,9276734	
26'	0,3654184		0,9308433	178,3	34'	56'	0,3735275		0,9276191	181,2	1'		0,3735275		0,9276191	
30'	0,3655537		0,9307901	178,4	30'	30'	0,3736624		0,9275648		30'		0,3736624		0,9275648	
27'	0,3656891	451,2	0,9307370	178,5	33'	57'	0,3737973		0,9275104	181,3	0'		0,3737973		0,9275104	
30'	0,3658245		0,9306838	178,6	30'	30'	0,3739322		0,9274560		30'		0,3739322		0,9274560	
28'	0,3659599		0,9306306	178,7	32'	58'	0,3740671		0,9274016		28'		0,3740671		0,9274016	
30'	0,3660953		0,9305774	178,8	30'	30'	0,3742020	449,6	0,9273472	181,4	2'		0,3742020	449,6	0,9273472	
29'	0,3662306		0,9305241	178,9	31'	59'	0,3743369	449,5	0,9272928	181,5	1'		0,3743369	449,5	0,9272928	
30'	0,3663659		0,9304708	179,0	30'	30'	0,3744718		0,9272384	181,6	0'		0,3744718		0,9272384	
30'	0,3665012	451,1	0,9304175		30'	60'	0,3746066		0,9271839				0,3746066		0,9271839	
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

22 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,3716066	449,5	0,9271839	60'	0,3826834	448,0	0,9238755	30'	
3'	0,3747153	449,4	0,9271294	181,7	0,3828178	447,9	0,9238238	3'	
1'	0,3748753	449,3	0,9270749	181,8	0,3829522	447,8	0,9237681	29'	
3'	0,3750111	449,4	0,9270204	181,9	0,3830866	447,7	0,9237124	3'	
2'	0,3751459	449,5	0,9269658	182,0	0,3832209	447,7	0,9236567	28'	
3'	0,3752808	449,4	0,9269112	182,1	0,3833552	447,6	0,9236010	3'	
3'	0,3754156	449,3	0,9268566	182,2	0,3834895	447,8	0,9235452	185,9	
3'	0,3755504	449,2	0,9268020	182,3	0,3836238	447,7	0,9234894	186,0	
4'	0,3756852	449,2	0,9267473	182,4	0,3837582	447,7	0,9234336	186,1	
3'	0,3758200	449,3	0,9266926	182,5	0,3838925	447,6	0,9233778	186,2	
5'	0,3759547	449,3	0,9266380	182,6	0,3840268	447,5	0,9233219	25'	
3'	0,3760895	449,2	0,9265833	182,7	0,3841610	447,6	0,9232660	3'	
6'	0,3762243	449,2	0,9265285	182,8	0,3842953	447,7	0,9232102	186,3	
3'	0,3763591	449,1	0,9264738	182,9	0,3844296	447,6	0,9231543	186,4	
7'	0,3764938	449,0	0,9264191	182,9	0,3845639	447,5	0,9230984	186,5	
3'	0,3766285	449,1	0,9263644	182,6	0,3846982	447,4	0,9230425	186,6	
8'	0,3767632	449,2	0,9263096	182,7	0,3848324	447,3	0,9229865	22'	
3'	0,3768980	449,3	0,9262548	182,8	0,3849666	447,4	0,9229305	186,7	
9'	0,3770327	449,0	0,9262000	182,8	0,3851008	447,5	0,9228745	21'	
3'	0,3771674	448,9	0,9261452	182,9	0,3852351	447,4	0,9228185	3'	
10'	0,3773021	448,8	0,9260905	183,0	0,3853693	447,3	0,9227624	20'	
3'	0,3774367	448,9	0,9260357	183,1	0,3855035	447,2	0,9227064	3'	
11'	0,3775714	449,0	0,9259809	183,2	0,3856377	447,2	0,9226503	187,0	
3'	0,3777061	448,9	0,9259255	183,3	0,3857718	447,3	0,9225942	187,1	
12'	0,3778408	448,8	0,9258706	183,3	0,3859060	447,3	0,9225381	187,2	
3'	0,3779755	448,7	0,9258156	183,4	0,3860402	447,2	0,9224820	17'	
13'	0,3781101	448,7	0,9257605	183,5	0,3861744	447,2	0,9224258	187,3	
3'	0,3782447	448,7	0,9257056	183,6	0,3863086	447,1	0,9223695	187,4	
14'	0,3783794	448,6	0,9256505	183,6	0,3864427	447,1	0,9223134	187,5	
3'	0,3785140	448,5	0,9255956	183,7	0,3865769	447,0	0,9222571	3'	
15'	0,3786486	448,5	0,9255405	183,7	0,3867110	447,0	0,9222007	15'	
3'	0,3787832	448,5	0,9254854	183,8	0,3868451	446,9	0,9221447	14'	
16'	0,3789178	448,4	0,9254303	183,8	0,3869792	446,8	0,9220884	187,7	
3'	0,3790524	448,4	0,9253752	183,9	0,3871133	446,8	0,9220321	13'	
17'	0,3791870	448,3	0,9253200	184,0	0,3872474	446,7	0,9219758	187,8	
3'	0,3793216	448,3	0,9252649	184,1	0,3873815	446,6	0,9219195	187,9	
15'	0,3794562	448,2	0,9252097	184,2	0,3875156	446,6	0,9218631	188,0	
3'	0,3795907	448,2	0,9251545	184,2	0,3876497	446,5	0,9218067	3'	
10'	0,3797253	448,4	0,9250993	184,2	0,3877837	446,5	0,9217503	11'	
3'	0,3798599	448,4	0,9250441	184,3	0,3879178	446,5	0,9216939	188,1	
20'	0,3799944	448,3	0,9249888	184,3	0,3880518	446,4	0,9216375	10'	
3'	0,3801289	448,3	0,9249335	184,4	0,3881858	446,4	0,9215811	3'	
21'	0,3802634	448,2	0,9248782	184,5	0,3883197	446,3	0,9215246	6'	
3'	0,3803979	448,2	0,9248229	184,5	0,3884536	446,3	0,9214681	3'	
22'	0,3805324	448,2	0,9247675	184,6	0,3885880	446,7	0,9214116	188,5	
3'	0,3806669	448,1	0,9247122	184,6	0,3887220	446,6	0,9213551	3'	
23'	0,3808014	448,1	0,9246568	184,7	0,3888560	446,5	0,9212985	7'	
3'	0,3809359	448,1	0,9246015	184,7	0,3889900	446,5	0,9212420	3'	
24'	0,3810704	448,2	0,9245460	184,8	0,3891240	446,7	0,9211854	188,6	
3'	0,3812048	448,2	0,9244906	184,9	0,3892580	446,6	0,9211288	188,7	
25'	0,3813393	448,1	0,9244351	185,0	0,3893919	446,5	0,9210722	5'	
3'	0,3814738	448,1	0,9243796	185,0	0,3895258	446,5	0,9210155	188,8	
26'	0,3816082	448,0	0,9243241	185,1	0,3896598	446,4	0,9209589	4'	
3'	0,3817426	448,1	0,9242686	185,1	0,3897938	446,4	0,9209022	189,0	
27'	0,3818770	448,2	0,9242131	185,2	0,3899277	446,3	0,9208455	3'	
3'	0,3820115	448,1	0,9241575	185,2	0,3900616	446,3	0,9207888	189,2	
28'	0,3821459	448,0	0,9241020	185,3	0,3901955	446,3	0,9207322	3'	
3'	0,3822803	447,9	0,9240464	185,4	0,3903294	446,3	0,9206752	189,3	
29'	0,3824147	447,8	0,9239909	185,5	0,3904633	446,3	0,9206185	1'	
3'	0,3825491	447,9	0,9239352	185,6	0,3905972	446,3	0,9205617	189,4	
30'	0,3826834	447,9	0,9238795	185,6	0,3907311	446,3	0,9205049	0'	
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.

67 deg.



23 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,3927311	446,3	0,9205049	189,5	60'	30'	0,3987491	444,5	0,9170601	193,5	30'					
30'	0,3928650	446,2	0,9204481	189,6	30'	30'	0,3988825		0,9170021		30'					
1'	0,3929989		0,9203912	189,7	59'	31'	0,3990158		0,9169440		29'					
30'	0,3931323		0,9203343	189,7	30'	30'	0,3991491		0,9168860		30'					
2'	0,3932665		0,9202774	189,8	58'	32'	0,3992825		0,9168279		28'					
30'	0,3934005	446,1	0,9202204		30'	30'	0,3994159	444,4	0,9167697	193,6	30'					
3'	0,3935343	446,0	0,9201635		57'	33'	0,3995492	444,3	0,9167118	193,8	27'					
30'	0,3936681		0,9201066	189,9	30'	30'	0,3996825		0,9166537	193,9	30'					
4'	0,3938019		0,9200495	190,0	56'	34'	0,3998158		0,9165955	194,0	26'					
30'	0,3939357		0,9199925	190,1	30'	30'	0,3999492		0,9165373		30'					
5'	0,3940695		0,9199355	190,2	55'	35'	0,4000825		0,9164791		25'					
30'	0,3942033		0,9198786		30'	30'	0,4002158		0,9164209		30'					
6'	0,3943371		0,9198215	190,3	54'	36'	0,4003490		0,9163627	194,1	24'					
30'	0,3944709	445,9	0,9197644		30'	30'	0,4004823		0,9163044	194,2	30'					
7'	0,3946047	445,8	0,9197073		53'	37'	0,4006155	444,2	0,9162462		23'					
30'	0,3947385		0,9196502	190,4	30'	30'	0,4007489		0,9161880	194,3	30'					
8'	0,3948723		0,9195931	190,5	52'	38'	0,4008821		0,9161297	194,5	22'					
30'	0,3950060		0,9195360	190,6	30'	30'	0,4010154	444,1	0,9160715		30'					
9'	0,3951397	445,7	0,9194788	190,7	51'	39'	0,4011486	444,0	0,9160130		21'					
30'	0,3952734		0,9194216	190,7	30'	30'	0,4012818		0,9159547	194,6	30'					
10'	0,3954071		0,9193644	190,8	50'	40'	0,4014150		0,9158963		20'					
30'	0,3955408		0,9193072	190,9	30'	30'	0,4015482		0,9158379	194,7	30'					
11'	0,3956745		0,9192500	191,0	49'	41'	0,4016814		0,9157795		19'					
30'	0,3958082		0,9191928	191,0	30'	30'	0,4018145	443,9	0,9157210	194,8	30'					
12'	0,3959419		0,9191353	191,1	48'	42'	0,4019478	443,8	0,9156626	195,0	18'					
30'	0,3960756	445,6	0,9190780		30'	30'	0,4020810		0,9156041		30'					
13'	0,3962093	445,5	0,9190207	191,2	47'	43'	0,4022141		0,9155456		17'					
30'	0,3963430		0,9189634	191,3	30'	30'	0,4023473		0,9154871	195,1	30'					
14'	0,3964766		0,9189060	191,3	46'	44'	0,4024804		0,9154286	195,2	30'					
30'	0,3966103	445,4	0,9188486	191,4	30'	30'	0,4026136		0,9153700		30'					
15'	0,3967439	445,3	0,9187912	191,5	45'	45'	0,4027467	443,7	0,9153115	195,3	15'					
30'	0,3968775		0,9187338		30'	30'	0,4028798		0,9152529	195,4	30'					
16'	0,3970111		0,9186763	191,6	44'	46'	0,4030129		0,9151943		14'					
30'	0,3971447		0,9186189	191,6	30'	30'	0,4031460	443,6	0,9151357	195,5	30'					
17'	0,3972783		0,9185614	191,7	43'	47'	0,4032791		0,9150770		13'					
30'	0,3974119		0,9185039		30'	30'	0,4034122	443,5	0,9150184	195,6	30'					
18'	0,3975455		0,9184464	191,8	42'	48'	0,4035453	443,5	0,9149597	195,8	12'					
30'	0,3976791		0,9183889	191,9	30'	30'	0,4036784		0,9149010		30'					
19'	0,3978127	445,2	0,9183313	192,0	41'	49'	0,4038114		0,9148422		11'					
30'	0,3979463	445,1	0,9182737		30'	30'	0,4039444		0,9147834		30'					
20'	0,3980798	445,0	0,9182161	192,1	40'	50'	0,4040775		0,9147247		10'					
30'	0,3982133	445,1	0,9181585	192,2	30'	30'	0,4042105	443,4	0,9146660	195,0	30'					
21'	0,3983468	445,2	0,9181009	192,3	39'	51'	0,4043436	443,3	0,9146072		9'					
30'	0,3984804	445,1	0,9180433		30'	30'	0,4044766		0,9145484	195,2	30'					
22'	0,3986139	445,0	0,9179855	192,4	38'	52'	0,4046096		0,9144895		8'					
30'	0,3987474		0,9179278	192,4	30'	30'	0,4047426		0,9144307		30'					
23'	0,3988809		0,9178701	192,5	37'	53'	0,4048756		0,9143719	195,3	7'					
30'	0,3990144	444,7	0,9178124		30'	30'	0,4050086		0,9143130		30'					
24'	0,3991479	444,8	0,9177546		36'	54'	0,4051416	443,2	0,9142540	195,5	6'					
30'	0,3992814		0,9176969	192,7	30'	30'	0,4052746		0,9141951	195,6	30'					
25'	0,3994148		0,9176391	192,8	35'	55'	0,4054075		0,9141361		5'					
30'	0,3995483		0,9175813		30'	30'	0,4055405		0,9140771	195,7	30'					
26'	0,3996818		0,9175234	192,8	34'	56'	0,4056734		0,9140181		4'					
30'	0,3998152		0,9174655		30'	30'	0,4058064	443,1	0,9139591	195,8	30'					
27'	0,3999485		0,9174077	192,9	33'	57'	0,4059393	443,0	0,9139000		30'					
30'	0,4000819		0,9173498	193,0	30'	30'	0,4060722		0,9138409		30'					
28'	0,4002153	444,7	0,9172919		30'	30'	0,4062051		0,9137818		2'					
30'	0,4003487		0,9172340	193,2	31'	30'	0,4063380		0,9137227		30'					
29'	0,4004821		0,9171760		31'	59'	0,4064709	442,9	0,9136636		1'					
30'	0,4006155	444,6	0,9171181	193,4	30'	30'	0,4066037	442,9	0,9136044		30'					
30'	0,4007489		0,9170601		30'	60'	0,4067366		0,9135452							
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

66 deg.

24 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4067366	443,0	0,9135454	197,2	60'	30'	0,4146732	441,2	0,9099613	201,2	30'		0,4146732	441,2	0,9099613	201,2
30'	0,4068635	442,9	0,9134862	197,3	30'	30'	0,4148256	441,1	0,9099009	201,3	30'		0,4148256	441,1	0,9099009	201,3
1'	0,4070024	442,8	0,9134271	197,4	59'	31'	0,4149579	441,0	0,9098406	201,4	29'		0,4149579	441,0	0,9098406	201,4
30'	0,4071353	442,7	0,9133679	197,5	30'	30'	0,4150903	440,9	0,9097802	201,5	30'		0,4150903	440,9	0,9097802	201,5
2'	0,4072681		0,9133087	197,6	58'	32'	0,4152226	440,8	0,9097198	201,6	28'		0,4152226	440,8	0,9097198	201,6
30'	0,4074009		0,9132495	197,7	30'	30'	0,4153549	440,7	0,9096594	201,7	30'		0,4153549	440,7	0,9096594	201,7
3'	0,4075337		0,9131902	197,8	57'	33'	0,4154872	440,6	0,9095990	201,8	27'		0,4154872	440,6	0,9095990	201,8
30'	0,4076665		0,9131309	197,9	30'	30'	0,4156199	440,5	0,9095386	201,9	30'		0,4156199	440,5	0,9095386	201,9
4'	0,4077993		0,9130716	198,0	56'	34'	0,4157517	440,4	0,9094781	202,0	26'		0,4157517	440,4	0,9094781	202,0
30'	0,4079321		0,9130123	198,1	30'	30'	0,4158840	440,3	0,9094176	202,1	30'		0,4158840	440,3	0,9094176	202,1
5'	0,4080649		0,9129529	198,2	55'	35'	0,4160163	440,2	0,9093571	202,2	25'		0,4160163	440,2	0,9093571	202,2
30'	0,4081977	442,6	0,9128936	198,3	30'	30'	0,4161486	440,1	0,9092966	202,3	30'		0,4161486	440,1	0,9092966	202,3
6'	0,4083305	442,5	0,9128342	198,4	54'	36'	0,4162808	440,0	0,9092361	202,4	24'		0,4162808	440,0	0,9092361	202,4
30'	0,4084633		0,9127748	198,5	30'	30'	0,4164130	440,0	0,9091756	202,5	30'		0,4164130	440,0	0,9091756	202,5
7'	0,4085960		0,9127154	198,6	53'	37'	0,4165453	440,0	0,9091150	202,6	23'		0,4165453	440,0	0,9091150	202,6
30'	0,4087288	442,4	0,9126560	198,7	30'	30'	0,4166775	440,0	0,9090544	202,7	30'		0,4166775	440,0	0,9090544	202,7
8'	0,4088615	442,3	0,9125965	198,8	52'	38'	0,4168097	440,0	0,9089938	202,8	22'		0,4168097	440,0	0,9089938	202,8
30'	0,4089942		0,9125370	198,9	30'	30'	0,4169419	440,0	0,9089332	202,9	30'		0,4169419	440,0	0,9089332	202,9
9'	0,4091269		0,9124775	199,0	51'	39'	0,4170741	440,0	0,9088726	203,0	21'		0,4170741	440,0	0,9088726	203,0
30'	0,4092595		0,9124180	199,1	30'	30'	0,4172063	440,0	0,9088118	203,1	30'		0,4172063	440,0	0,9088118	203,1
10'	0,4093923		0,9123584	199,2	50'	40'	0,4173385	440,0	0,9087511	203,2	20'		0,4173385	440,0	0,9087511	203,2
30'	0,4095250		0,9122989	199,3	30'	30'	0,4174707	440,0	0,9086903	203,3	30'		0,4174707	440,0	0,9086903	203,3
11'	0,4096577	442,2	0,9122393	199,4	49'	41'	0,4176028	440,0	0,9086297	203,4	19'		0,4176028	440,0	0,9086297	203,4
30'	0,4097904		0,9121797	199,5	30'	30'	0,4177350	440,0	0,9085690	203,5	30'		0,4177350	440,0	0,9085690	203,5
12'	0,4099230		0,9121201	199,6	48'	42'	0,4178671	440,0	0,9085082	203,6	18'		0,4178671	440,0	0,9085082	203,6
30'	0,4100557		0,9120605	199,7	30'	30'	0,4179992	440,0	0,9084474	203,7	30'		0,4179992	440,0	0,9084474	203,7
13'	0,4101883		0,9120008	199,8	47'	43'	0,4181313	440,0	0,9083866	203,8	17'		0,4181313	440,0	0,9083866	203,8
30'	0,4103210		0,9119411	199,9	30'	30'	0,4182635	440,0	0,9083258	203,9	30'		0,4182635	440,0	0,9083258	203,9
14'	0,4104536		0,9118814	200,0	46'	44'	0,4183956	440,0	0,9082649	204,0	16'		0,4183956	440,0	0,9082649	204,0
30'	0,4105863	442,1	0,9118217	200,1	30'	30'	0,4185276	440,0	0,9082041	204,1	30'		0,4185276	440,0	0,9082041	204,1
15'	0,4107189	442,0	0,9117620	200,2	45'	45'	0,4186597	440,0	0,9081432	204,2	15'		0,4186597	440,0	0,9081432	204,2
30'	0,4108515	441,9	0,9117023	200,3	30'	30'	0,4187918	440,0	0,9080823	204,3	30'		0,4187918	440,0	0,9080823	204,3
16'	0,4109841	441,8	0,9116425	200,4	44'	46'	0,4189239	440,0	0,9080214	204,4	14'		0,4189239	440,0	0,9080214	204,4
30'	0,4111166	441,7	0,9115827	200,5	30'	30'	0,4190560	440,0	0,9079605	204,5	30'		0,4190560	440,0	0,9079605	204,5
17'	0,4112492	441,6	0,9115229	200,6	43'	47'	0,4191880	440,0	0,9078995	204,6	13'		0,4191880	440,0	0,9078995	204,6
30'	0,4113818	441,5	0,9114630	200,7	30'	30'	0,4193201	440,0	0,9078385	204,7	30'		0,4193201	440,0	0,9078385	204,7
18'	0,4115144	441,4	0,9114032	200,8	42'	48'	0,4194521	440,0	0,9077775	204,8	12'		0,4194521	440,0	0,9077775	204,8
30'	0,4116470	441,3	0,9113433	200,9	30'	30'	0,4195841	440,0	0,9077164	204,9	30'		0,4195841	440,0	0,9077164	204,9
19'	0,4117795	441,2	0,9112835	201,0	41'	49'	0,4197161	440,0	0,9076554	205,0	11'		0,4197161	440,0	0,9076554	205,0
30'	0,4119120	441,1	0,9112236	201,1	30'	30'	0,4198481	440,0	0,9075944	205,1	30'		0,4198481	440,0	0,9075944	205,1
20'	0,4120445	441,0	0,9111637	201,2	40'	50'	0,4199801	440,0	0,9075333	205,2	10'		0,4199801	440,0	0,9075333	205,2
30'	0,4121771	440,9	0,9111038	201,3	30'	30'	0,4201121	440,0	0,9074722	205,3	30'		0,4201121	440,0	0,9074722	205,3
21'	0,4123096	440,8	0,9110438	201,4	39'	51'	0,4202441	440,0	0,9074111	205,4	9'		0,4202441	440,0	0,9074111	205,4
30'	0,4124420	440,7	0,9109838	201,5	30'	30'	0,4203760	440,0	0,9073500	205,5	30'		0,4203760	440,0	0,9073500	205,5
22'	0,4125745	440,6	0,9109238	201,6	38'	52'	0,4205080	440,0	0,9072889	205,6	8'		0,4205080	440,0	0,9072889	205,6
30'	0,4127070	440,5	0,9108638	201,7	30'	30'	0,4206400	440,0	0,9072276	205,7	30'		0,4206400	440,0	0,9072276	205,7
23'	0,4128395	440,4	0,9108038	201,8	37'	53'	0,4207719	440,0	0,9071664	205,8	7'		0,4207719	440,0	0,9071664	205,8
30'	0,4129720	440,3	0,9107438	201,9	30'	30'	0,4209039	440,0	0,9071052	205,9	30'		0,4209039	440,0	0,9071052	205,9
24'	0,4131044	440,2	0,9106837	202,0	36'	54'	0,4210358	440,0	0,9070440	206,0	6'		0,4210358	440,0	0,9070440	206,0
30'	0,4132368	440,1	0,9106236	202,1	30'	30'	0,4211677	440,0	0,9069828	206,1	30'		0,4211677	440,0	0,9069828	206,1
25'	0,4133693	440,0	0,9105635	202,2	35'	55'	0,4212996	440,0	0,9069215	206,2	5'		0,4212996	440,0	0,9069215	206,2
30'	0,4135018	440,0	0,9105034	202,3	30'	30'	0,4214315	440,0	0,9068602	206,3	30'		0,4214315	440,0	0,9068602	206,3
26'	0,4136342	440,0	0,9104432	202,4	34'	56'	0,4215634	440,0	0,9067989	206,4	4'		0,4215634	440,0	0,9067989	206,4
30'	0,4137666	440,0	0,9103830	202,5	30'	30'	0,4216953	440,0	0,9067376	206,5	30'		0,4216953	440,0	0,9067376	206,5
27'	0,4138990	440,0	0,9103228	202,6	33'	57'	0,4218272	440,0	0,9066762	206,6	3'		0,4218272	440,0	0,9066762	206,6
30'	0,4140314	440,0	0,9102626	202,7	30'	30'	0,4219591	440,0	0,9066149	206,7	30'		0,4219591	440,0	0,9066149	206,7
28'	0,4141638	440,0	0,9102024	202,8	32'	58'	0,4220910	440,0	0,9065535	206,8	2'		0,4220910	440,0	0,9065535	206,8
30'	0,4142962	440,0	0,9101422	202,9	30'	30'	0,4222229	440,0	0,9064921	206,9	30'		0,4222229	440,0	0,9064921	206,9
29'	0,4144285	440,0	0,9100819	203,0	31'	59'	0,4223548	440,0	0,9064307	207,0	1'		0,4223548	440,0	0,9064307	207,0
30'	0,4145608	440,0	0,9100216	203,1	30'	30'	0,4224866	440,0	0,9063693	207,1	30'		0,4224866	440,0	0,9063693	207,1
30'	0,4146932	440,0	0,9099613	203,2	30'	60'	0,4226183	440,0	0,9063078	207,2	0'		0,4226183	440,0	0,9063078	207,2
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

65 deg.

25 deg.

[illegible]

26 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4383711	435,8	0,8987740	212,5	60'	30'	0,4461978	433,8	0,8949343	216,3	30'		0,4461978	433,8	0,8949343	216,3
30'	0,4385018		0,8987303	212,6	30'	30'	0,4463280		0,8948674	216,4	30'		0,4463280		0,8948674	216,4
1'	0,4386326	435,7	0,8986865	212,7	59'	31'	0,4464581		0,8948005	216,5	29'		0,4464581		0,8948005	216,5
30'	0,4387633	435,6	0,8986427		30'	30'	0,4465882		0,8947336	216,6	30'		0,4465882		0,8947336	216,6
2'	0,4388940	435,5	0,8985989	212,8	58'	32'	0,4467184	433,7	0,8946667	216,7	28'		0,4467184	433,7	0,8946667	216,7
30'	0,4390246		0,8985551	212,9	30'	30'	0,4468485		0,8946006		30'		0,4468485		0,8946006	
30'	0,4391553		0,8985112	213,0	57'	33'	0,4469786		0,8945344	216,8	27'		0,4469786		0,8945344	216,8
30'	0,4392860		0,8984673	213,1	30'	30'	0,4471087		0,8944683		30'		0,4471087		0,8944683	
4'	0,4394166		0,8984234	213,2	56'	34'	0,4472388		0,8944022		26'		0,4472388		0,8944022	
30'	0,4395472		0,8983795		30'	30'	0,4473689	433,6	0,8943361	216,9	30'		0,4473689	433,6	0,8943361	216,9
5'	0,4396779		0,8983355	55'	35'	35'	0,4474990	433,5	0,8942700		25'		0,4474990	433,5	0,8942700	
30'	0,4398086	435,4	0,8982916	213,3	30'	30'	0,4476291		0,8942039	217,0	30'		0,4476291		0,8942039	217,0
6'	0,4399392	435,3	0,8982476	213,4	54'	36'	0,4477592		0,8941378	217,1	30'		0,4477592		0,8941378	217,1
30'	0,4400698	435,5	0,8982036	213,4	30'	30'	0,4478893	433,4	0,8940717	217,2	30'		0,4478893	433,4	0,8940717	217,2
7'	0,4402004	435,2	0,8981596	213,5	53'	37'	0,4480194	433,3	0,8940056	217,3	29'		0,4480194	433,3	0,8940056	217,3
30'	0,4403309		0,8981156	213,6	30'	30'	0,4481495		0,8939395		30'		0,4481495		0,8939395	
8'	0,4404615	435,3	0,8980715	213,7	52'	38'	0,4482796		0,8938734	217,3	29'		0,4482796		0,8938734	217,3
30'	0,4405921		0,8980274		30'	30'	0,4484097		0,8938073	217,4	30'		0,4484097		0,8938073	217,4
9'	0,4407227	435,2	0,8979833	213,8	51'	39'	0,4485398		0,8937412	217,5	21'		0,4485398		0,8937412	217,5
30'	0,4408533	435,1	0,8979392		30'	30'	0,4486699	433,2	0,8936751	217,6	30'		0,4486699	433,2	0,8936751	217,6
10'	0,4409838	435,0	0,8978951	213,9	50'	40'	0,4487999		0,8936090	217,7	20'		0,4487999		0,8936090	217,7
30'	0,4411143	435,1	0,8978510	214,0	30'	30'	0,4489299		0,8935429	217,8	30'		0,4489299		0,8935429	217,8
11'	0,4412448	435,2	0,8978068	214,1	49'	41'	0,4490599		0,8934768	217,9	30'		0,4490599		0,8934768	217,9
30'	0,4413753	435,0	0,8977626	214,2	30'	30'	0,4491899	433,1	0,8934107	218,0	30'		0,4491899	433,1	0,8934107	218,0
12'	0,4415059	434,8	0,8977184	214,3	48'	42'	0,4493199		0,8933446		18'		0,4493199		0,8933446	
30'	0,4416363	434,9	0,8976742		30'	30'	0,4494499	433,0	0,8932785	218,1	30'		0,4494499	433,0	0,8932785	218,1
13'	0,4417668	434,9	0,8976300	214,4	47'	43'	0,4495799		0,8932124	218,2	30'		0,4495799		0,8932124	218,2
30'	0,4418973	434,9	0,8975858		30'	30'	0,4497099	432,9	0,8931463	218,3	30'		0,4497099	432,9	0,8931463	218,3
14'	0,4420278	434,8	0,8975416	214,5	46'	44'	0,4498399		0,8930802		16'		0,4498399		0,8930802	
30'	0,4421582		0,8974974	214,6	30'	30'	0,4499699	432,8	0,8930141	218,4	30'		0,4499699	432,8	0,8930141	218,4
15'	0,4422887		0,8974532	214,7	45'	45'	0,4500999		0,8929480		15'		0,4500999		0,8929480	
30'	0,4424192	434,7	0,8974090	214,8	30'	30'	0,4502299	432,7	0,8928819	218,5	30'		0,4502299	432,7	0,8928819	218,5
16'	0,4425496		0,8973648	214,9	44'	46'	0,4503599		0,8928158	218,6	14'		0,4503599		0,8928158	218,6
30'	0,4426800		0,8973206	215,0	30'	30'	0,4504899	432,6	0,8927497	218,7	30'		0,4504899	432,6	0,8927497	218,7
17'	0,4428104	434,6	0,8972764	215,1	43'	47'	0,4506199		0,8926836	218,8	13'		0,4506199		0,8926836	218,8
30'	0,4429408	434,5	0,8972322	215,2	30'	30'	0,4507499	432,5	0,8926175	218,9	30'		0,4507499	432,5	0,8926175	218,9
18'	0,4430712	434,5	0,8971880	215,3	42'	48'	0,4508799		0,8925514		12'		0,4508799		0,8925514	
30'	0,4432016	434,6	0,8971438	215,4	30'	30'	0,4510099	432,4	0,8924853	219,0	30'		0,4510099	432,4	0,8924853	219,0
19'	0,4433319	434,7	0,8970996	215,5	41'	49'	0,4511399		0,8924192	219,1	30'		0,4511399		0,8924192	219,1
30'	0,4434623	434,7	0,8970554	215,6	30'	30'	0,4512699	432,3	0,8923531	219,2	30'		0,4512699	432,3	0,8923531	219,2
20'	0,4435927	434,5	0,8970112	215,7	40'	50'	0,4513999		0,8922870		10'		0,4513999		0,8922870	
30'	0,4437231	434,4	0,8969670	215,8	30'	30'	0,4515299	432,2	0,8922209	219,3	30'		0,4515299	432,2	0,8922209	219,3
21'	0,4438534	434,3	0,8969228	215,9	30'	30'	0,4516599		0,8921548	219,4	30'		0,4516599		0,8921548	219,4
30'	0,4439837		0,8968786	216,0	30'	30'	0,4517899	432,1	0,8920887	219,5	30'		0,4517899	432,1	0,8920887	219,5
22'	0,4441140		0,8968344	216,1	52'	51'	0,4519199		0,8920226		8'		0,4519199		0,8920226	
30'	0,4442443		0,8967902	216,2	30'	30'	0,4520499	432,0	0,8919565	219,6	30'		0,4520499	432,0	0,8919565	219,6
23'	0,4443746	434,2	0,8967460	216,3	30'	30'	0,4521799		0,8918904	219,7	30'		0,4521799		0,8918904	219,7
30'	0,4445049		0,8967018	216,4	30'	30'	0,4523099	431,9	0,8918243	219,8	30'		0,4523099	431,9	0,8918243	219,8
24'	0,4446352		0,8966576	216,5	30'	30'	0,4524399		0,8917582		30'		0,4524399		0,8917582	
30'	0,4447655		0,8966134	216,6	30'	30'	0,4525699	431,8	0,8916921	219,9	30'		0,4525699	431,8	0,8916921	219,9
25'	0,4448957	434,1	0,8965692	216,7	30'	30'	0,4526999		0,8916260	220,0	30'		0,4526999		0,8916260	220,0
30'	0,4450260	434,0	0,8965250	216,8	30'	30'	0,4528299	431,7	0,8915599	220,1	30'		0,4528299	431,7	0,8915599	220,1
26'	0,4451562		0,8964808	216,9	30'	30'	0,4529599		0,8914938		30'		0,4529599		0,8914938	
30'	0,4452865		0,8964366	217,0	30'	30'	0,4530899	431,6	0,8914277	220,2	30'		0,4530899	431,6	0,8914277	220,2
27'	0,4454167	433,9	0,8963924	217,1	30'	30'	0,4532199		0,8913616	220,3	30'		0,4532199		0,8913616	220,3
30'	0,4455469	433,8	0,8963482	217,2	30'	30'	0,4533499	431,5	0,8912955	220,4	30'		0,4533499	431,5	0,8912955	220,4
28'	0,4456771		0,8963040	217,3	30'	30'	0,4534799		0,8912294		30'		0,4534799		0,8912294	
30'	0,4458073		0,8962598	217,4	30'	30'	0,4536099	431,4	0,8911633	220,5	30'		0,4536099	431,4	0,8911633	220,5
29'	0,4459375		0,8962156	217,5	30'	30'	0,4537399		0,8910972		30'		0,4537399		0,8910972	
30'	0,4460676		0,8961714	217,6	30'	30'	0,4538699	431,3	0,8910311	220,6	30'		0,4538699	431,3	0,8910311	220,6
30'	0,4461978		0,8961272	217,7	30'	30'	0,4539999	431,2	0,8909650	220,7	30'		0,4539999	431,2	0,8909650	220,7
	co-sin.	diff.	sin.	diff.			co-sin.	diff.	sin.	diff.			co-sin.	diff.	sin.	diff.

63 deg.



27 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,4539205	432,0	0,8910065	220,2	60'	30'	0,4617486	430,0	0,8870108	224,0	30'
30'	0,4541201	431,9	0,8909404	220,3	30'	30'	0,4618776		0,8869436	224,0	30'
1	0,4542497	431,8	0,8908744		59'	31'	0,4620066		0,8868764	224,1	29'
30'	0,4543793		0,8908083		30'	30'	0,4621356	429,9	0,8868092	224,2	30'
2'	0,4545083		0,8907422		53'	32'	0,4622646	429,8	0,8867420	224,3	28'
30'	0,4546384		0,8906761	220,4	30'	30'	0,4623936		0,8866748	224,4	30'
30'	0,4547679	431,7	0,8906100	220,5	57'	33'	0,4625225		0,8866075	224,5	27'
30'	0,4548974		0,8905439	220,6	30'	30'	0,4626515		0,8865402	224,6	30'
4'	0,4550269		0,8904777	220,7	56'	34'	0,4627804	429,7	0,8864729	224,7	26'
30'	0,4551564		0,8904115		30'	30'	0,4629093		0,8864056	224,8	30'
5'	0,4552859		0,8903453	220,8	55'	35'	0,4630382		0,8863383	224,9	25'
30'	0,4554154	431,6	0,8902791	220,9	30'	30'	0,4631671		0,8862710	225,0	30'
6'	0,4555449	431,5	0,8902128	221,0	54'	36'	0,4632960		0,8862036	225,1	24'
30'	0,4556743		0,8901465		30'	30'	0,4634249	429,6	0,8861362	225,2	30'
7'	0,4558038		0,8900802		53'	37'	0,4635538	429,5	0,8860688	225,3	23'
30'	0,4559332		0,8900139	221,1	30'	30'	0,4636827		0,8860014	225,4	30'
8'	0,4560627		0,8899476	221,2	52'	38'	0,4638115		0,8859339	225,5	22'
30'	0,4561922	431,4	0,8898813		30'	30'	0,4639404		0,8858664	225,6	30'
9'	0,4563216	431,3	0,8898149	221,3	51'	39'	0,4640692		0,8857989	225,7	21'
30'	0,4564510		0,8897485		30'	30'	0,4641981	429,4	0,8857314	225,8	30'
10'	0,4565804		0,8896821		50'	40'	0,4643269		0,8856639	225,9	20'
30'	0,4567098		0,8896157	221,4	30'	40'	0,4644557	429,3	0,8855964	226,0	30'
11'	0,4568392	431,2	0,8895493	221,5	49'	41'	0,4645845		0,8855289	226,1	17'
30'	0,4569686		0,8894829	221,6	30'	30'	0,4647133		0,8854612	226,2	30'
12'	0,4570979		0,8894164	221,7	43'	42'	0,4648420	429,2	0,8853936	226,3	15'
30'	0,4572273		0,8893499		30'	30'	0,4649708		0,8853260	226,4	30'
13'	0,4573566		0,8892834	221,8	47'	43'	0,4650995		0,8852583	226,5	17'
30'	0,4574860	431,1	0,8892169	221,9	30'	30'	0,4652283	429,1	0,8851907	226,6	30'
14'	0,4576153	431,0	0,8891503	222,0	46'	44'	0,4653571		0,8851230	226,7	16'
30'	0,4577446		0,8890837		30'	30'	0,4654858	429,0	0,8850553	226,8	30'
15'	0,4578739		0,8890171	45'	45'	45'	0,4656145		0,8849876	226,9	15'
30'	0,4580032	430,9	0,8889505		30'	30'	0,4657432		0,8849199	227,0	30'
16'	0,4581325	430,8	0,8888839	222,2	44'	46'	0,4658719		0,8848522	227,1	14'
30'	0,4582618		0,8888172		30'	30'	0,4660005	428,9	0,8847844	227,2	30'
17'	0,4583910		0,8887506	222,3	43'	47'	0,4661293	428,8	0,8847166	227,3	13'
30'	0,4585203		0,8886839		30'	30'	0,4662580		0,8846488	227,4	30'
18'	0,4586496		0,8886172	222,4	42'	48'	0,4663866		0,8845810	227,5	12'
30'	0,4587788		0,8885505	222,5	30'	30'	0,4665153		0,8845132	227,6	30'
19'	0,4589080	430,7	0,8884837		41'	49'	0,4666439		0,8844453	227,7	11'
30'	0,4590373		0,8884170	222,6	30'	30'	0,4667726		0,8843774	227,8	30'
20'	0,4591665		0,8883502	40'	50'	50'	0,4669012	428,7	0,8843095	227,9	10'
30'	0,4592957		0,8882834	222,7	30'	30'	0,4670298		0,8842416	228,0	30'
21'	0,4594248		0,8882166		30'	51'	0,4671584		0,8841736	228,1	9'
30'	0,4595540		0,8881497	222,8	30'	30'	0,4672870	428,6	0,8841057	228,2	30'
22'	0,4596832	430,5	0,8880829		38'	52'	0,4674156	428,5	0,8840377	228,3	8'
30'	0,4598124		0,8880161	222,9	30'	30'	0,4675442		0,8839697	228,4	30'
23'	0,4599415		0,8879492	223,0	53'	53'	0,4676727		0,8839017	228,5	7'
30'	0,4600707		0,8878823		30'	30'	0,4678012		0,8838337	228,6	30'
24'	0,4601998	430,3	0,8878154	223,1	36'	54'	0,4679298		0,8837656	228,7	6'
30'	0,4603289		0,8877485	223,2	30'	30'	0,4680584	428,4	0,8836975	228,8	30'
25'	0,4604580		0,8876815		35'	55'	0,4681869		0,8836294	228,9	5'
30'	0,4605871		0,8876145	223,3	30'	30'	0,4683154	428,3	0,8835613	229,0	30'
26'	0,4607162		0,8875475	223,4	34'	56'	0,4684439		0,8834932	229,1	4'
30'	0,4608453		0,8874804	223,5	30'	30'	0,4685724		0,8834251	229,2	30'
27'	0,4609744	430,2	0,8874134		33'	57'	0,4687009	428,2	0,8833569	229,3	30'
30'	0,4611035		0,8873464	223,6	30'	30'	0,4688293		0,8832887	229,4	30'
28'	0,4612325		0,8872793	223,7	32'	58'	0,4689578		0,8832205	229,5	2'
30'	0,4613616	430,1	0,8872122		30'	30'	0,4690863		0,8831523	229,6	30'
29'	0,4614906	430,0	0,8871451	223,8	31'	59'	0,4692147		0,8830841	229,7	1'
30'	0,4616196		0,8870780	223,9	30'	30'	0,4693432	428,1	0,8830159	229,8	30'
30'	0,4617485		0,8870108		30'	60'	0,4694716		0,8829476	229,9	0'
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.	

62 deg.

28 deg.

	sin.	diff. 10''	co-sin.	diff. 10'			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4694716	428,0	0,8829476	227,7	60'	30'	0,4771588	426,0	0,8788171	231,3	30'		0,4771588	426,0	0,8788171	231,3
30'	0,4696000		0,8828793		30'	30'	0,4772866		0,8787477		30'		0,4772866		0,8787477	
1'	0,4677254	427,8	0,8828110	227,8	59'	31'	0,4774144	425,9	0,8786783	231,5	29'		0,4774144	425,9	0,8786783	231,5
30'	0,4693868		0,8827427		30'	31'	0,4775422		0,8786089		30'		0,4775422		0,8786089	
2'	0,4692852		0,8826743	228,0	58'	32'	0,4776700	425,8	0,8785394	231,7	28'		0,4776700		0,8785394	
30'	0,4701136	427,7	0,8826059	228,1	30'	33'	0,4777978	425,7	0,8784699	231,8	30'		0,4777978	425,7	0,8784699	231,8
30'	0,4702412		0,8825375		57'	33'	0,4779255		0,8784004		27'		0,4779255		0,8784004	
30'	0,4703703		0,8824691	228,2	30'	34'	0,4780533		0,8783308		30'		0,4780533		0,8783308	
4'	0,4704986	427,6	0,8824007	228,3	56'	34'	0,4781810	425,6	0,8782613	231,9	26'		0,4781810	425,6	0,8782613	231,9
30'	0,4706270		0,8823322		30'	35'	0,4783087		0,8781918		30'		0,4783087		0,8781918	
5'	0,4707553	427,5	0,8822638	228,4	55'	35'	0,4784364	425,5	0,8781222	232,0	25'		0,4784364	425,5	0,8781222	232,0
30'	0,4708836		0,8821953		30'	36'	0,4785641		0,8780526		30'		0,4785641		0,8780526	
6'	0,4710119	427,4	0,8821268	228,5	54'	36'	0,4786919	425,4	0,8779830	232,1	24'		0,4786919	425,4	0,8779830	232,1
30'	0,4711402		0,8820583		30'	37'	0,4788196		0,8779133		30'		0,4788196		0,8779133	
7'	0,4712685		0,8819898	228,5	53'	37'	0,4789472		0,8778437	232,2	23'		0,4789472		0,8778437	
30'	0,4713968	427,3	0,8819213	228,6	30'	38'	0,4790749	425,3	0,8777740	232,3	22'		0,4790749	425,3	0,8777740	232,3
30'	0,4715250		0,8818527		52'	38'	0,4792026		0,8777043		30'		0,4792026		0,8777043	
30'	0,4716532	427,2	0,8817841	228,7	30'	39'	0,4793302	425,2	0,8776346	232,4	30'		0,4793302	425,2	0,8776346	232,4
9'	0,4717815		0,8817155		51'	39'	0,4794579		0,8775649		21'		0,4794579		0,8775649	
30'	0,4719098		0,8816469	228,8	30'	40'	0,4795855		0,8774952	232,5	30'		0,4795855		0,8774952	
10'	0,4720380	427,1	0,8815782	228,9	50'	40'	0,4797131	425,1	0,8774254	232,6	20'		0,4797131	425,1	0,8774254	232,6
30'	0,4721662		0,8815096		30'	41'	0,4798407		0,8773556		30'		0,4798407		0,8773556	
11'	0,4722944	427,0	0,8814409	229,0	49'	41'	0,4799683	425,0	0,8772858	232,7	19'		0,4799683	425,0	0,8772858	232,7
30'	0,4724226		0,8813722		30'	42'	0,4800959		0,8772160		30'		0,4800959		0,8772160	
12'	0,4725508		0,8813035	229,1	48'	42'	0,4802235		0,8771461	232,8	18'		0,4802235		0,8771461	
30'	0,4726790	426,9	0,8812348	229,2	30'	43'	0,4803511	424,9	0,8770763	232,9	30'		0,4803511	424,9	0,8770763	232,9
13'	0,4728071		0,8811660		47'	43'	0,4804786		0,8770064		17'		0,4804786		0,8770064	
30'	0,4729353	426,8	0,8810972	229,3	30'	44'	0,4806061	424,8	0,8769365	233,0	30'		0,4806061	424,8	0,8769365	233,0
14'	0,4730634		0,8810284		46'	44'	0,4807337		0,8768666		16'		0,4807337		0,8768666	
30'	0,4731916		0,8809596	229,4	30'	45'	0,4808613		0,8767967	233,1	30'		0,4808613		0,8767967	
15'	0,4733197	426,7	0,8808907	229,5	45'	45'	0,4809888	424,7	0,8767267	233,2	15'		0,4809888	424,7	0,8767267	233,2
30'	0,4734478		0,8808217		30'	46'	0,4811163		0,8766567		30'		0,4811163		0,8766567	
16'	0,4735759	426,6	0,8807530	229,6	44'	46'	0,4812438	424,6	0,8765868	233,3	14'		0,4812438	424,6	0,8765868	233,3
30'	0,4737040		0,8806841		30'	47'	0,4813713		0,8765168		30'		0,4813713		0,8765168	
17'	0,4738321		0,8806152	229,7	43'	47'	0,4814987		0,8764468	233,4	13'		0,4814987		0,8764468	
30'	0,4739601	426,5	0,8805463	229,8	30'	48'	0,4816262	424,5	0,8763768	233,5	30'		0,4816262	424,5	0,8763768	233,5
18'	0,4740882		0,8804773		42'	48'	0,4817537		0,8763067		30'		0,4817537		0,8763067	
30'	0,4742163		0,8804084	229,9	30'	49'	0,4818812		0,8762366	233,6	30'		0,4818812		0,8762366	
19'	0,4743443	426,4	0,8803394	230,0	41'	49'	0,4820086	424,4	0,8761665	233,7	11'		0,4820086	424,4	0,8761665	233,7
30'	0,4744724		0,8802704		30'	50'	0,4821360		0,8760963		30'		0,4821360		0,8760963	
20'	0,4746004	426,3	0,8802014	230,1	40'	50'	0,4822634	424,3	0,8760262	233,8	10'		0,4822634	424,3	0,8760262	233,8
30'	0,4747284		0,8801323		30'	51'	0,4823908		0,8759561		30'		0,4823908		0,8759561	
21'	0,4748564	426,2	0,8800633	230,2	39'	51'	0,4825182	424,2	0,8758859	233,9	9'		0,4825182	424,2	0,8758859	233,9
30'	0,4749844		0,8799942		30'	52'	0,4826456		0,8758157		30'		0,4826456		0,8758157	
22'	0,4751124		0,8799251	230,3	38'	52'	0,4827730		0,8757455	234,0	8'		0,4827730		0,8757455	
30'	0,4752404	426,1	0,8798560	230,4	30'	53'	0,4829003	424,1	0,8756753	234,1	30'		0,4829003	424,1	0,8756753	234,1
23'	0,4753683		0,8797867		30'	54'	0,4830277		0,8756050		7'		0,4830277		0,8756050	
30'	0,4754963	426,0	0,8797178	230,5	30'	55'	0,4831551	424,0	0,8755347	234,2	30'		0,4831551	424,0	0,8755347	234,2
24'	0,4756242		0,8796486		36'	55'	0,4832824		0,8754645		30'		0,4832824		0,8754645	
30'	0,4757522		0,8795794	230,6	30'	56'	0,4834097		0,8753942	234,3	30'		0,4834097		0,8753942	
25'	0,4758801	425,9	0,8795102	230,7	35'	56'	0,4835370	424,0	0,8753239	234,4	5'		0,4835370	424,0	0,8753239	234,4
30'	0,4760080		0,8794410		30'	57'	0,4836643		0,8752536		30'		0,4836643		0,8752536	
26'	0,4761359	425,8	0,8793717	230,8	34'	57'	0,4837916	423,9	0,8751832	234,5	4'		0,4837916	423,9	0,8751832	234,5
30'	0,4762638		0,8793025		30'	58'	0,4839189		0,8751128		30'		0,4839189		0,8751128	
27'	0,4763917	425,7	0,8792333	230,9	33'	58'	0,4840462	423,8	0,8750424	234,6	30'		0,4840462	423,8	0,8750424	234,6
30'	0,4765196		0,8791639		30'	59'	0,4841735		0,8749720		30'		0,4841735		0,8749720	
28'	0,4766474	425,6	0,8790946	231,0	32'	59'	0,4843007	423,7	0,8749016	234,7	2'		0,4843007	423,7	0,8749016	234,7
30'	0,4767752		0,8790252		30'	60'	0,4844280		0,8748312		30'		0,4844280		0,8748312	
29'	0,4769031	425,5	0,8789559	231,1	31'	60'	0,4845552	423,6	0,8747607	234,8	1'		0,4845552	423,6	0,8747607	234,8
30'	0,4770310		0,8788865		30'	61'	0,4846824		0,8746902		30'		0,4846824		0,8746902	
30'	0,4771588		0,8788171	231,2	30'	62'	0,4848096		0,8746197	234,9	0'		0,4848096		0,8746197	
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

29 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4848096		0,8746197		60'	30'	0,4924236		0,8703557		30'		0,4924236		0,8703557	
30'	0,4849358		0,8745491		30'	31'	0,4925502		0,8702841		30'		0,4925502		0,8702841	
1'	0,4850640		0,8744786		59'	31'	0,4926767		0,8702124		29'		0,4926767		0,8702124	
30'	0,4851912		0,8744081		30'	32'	0,4928033		0,8701407		30'		0,4928033		0,8701407	
2'	0,4853184	423,9	0,8743375		58'	32'	0,4929298		0,8700690		28'		0,4929298		0,8700690	
30'	0,4854456	423,8	0,8742669	235,3	30'	33'	0,4930564		0,8699973		27'		0,4930564		0,8699973	
3'	0,4855727		0,8741963	235,4	57'	33'	0,4931829		0,8699256		27'		0,4931829		0,8699256	
30'	0,4856999		0,8741257	235,5	30'	34'	0,4933094		0,8698539		26'		0,4933094		0,8698539	
4'	0,4858270		0,8740550	235,6	56'	34'	0,4934359		0,8697821		26'		0,4934359		0,8697821	
2'	0,4859541	423,7	0,8739843	235,7	30'	35'	0,4935624		0,8697103		25'		0,4935624		0,8697103	
5'	0,4860812		0,8739136		55'	35'	0,4936889		0,8696385		25'		0,4936889		0,8696385	
30'	0,4862083		0,8738429		30'	36'	0,4938154		0,8695667		24'		0,4938154		0,8695667	
6'	0,4863354	423,6	0,8737722	235,8	54'	36'	0,4939419		0,8694949		24'		0,4939419		0,8694949	
30'	0,4864624	423,5	0,8737020	235,9	30'	37'	0,4940684		0,8694231		23'		0,4940684		0,8694231	
3'	0,4865895		0,8736307	236,0	53'	37'	0,4941949		0,8693512		23'		0,4941949		0,8693512	
30'	0,4867166		0,8735599		30'	38'	0,4943212		0,8692793		22'		0,4943212		0,8692793	
8'	0,4868436		0,8734891		52'	38'	0,4944476		0,8692074		22'		0,4944476		0,8692074	
30'	0,4869707		0,8734183		30'	39'	0,4945740		0,8691355		21'		0,4945740		0,8691355	
9'	0,4870977	423,4	0,8733475	236,1	51'	39'	0,4947005		0,8690635		21'		0,4947005		0,8690635	
30'	0,4872247	423,3	0,8732767	236,2	30'	40'	0,4948269		0,8689916		20'		0,4948269		0,8689916	
10'	0,4873517		0,8732059		50'	40'	0,4949533		0,8689196		20'		0,4949533		0,8689196	
30'	0,4874787		0,8731349	236,3	30'	41'	0,4950796		0,8688475		19'		0,4950796		0,8688475	
11'	0,4876057		0,8730640	236,4	49'	41'	0,4952060		0,8687756		19'		0,4952060		0,8687756	
30'	0,4877327		0,8729931	236,5	30'	42'	0,4953324		0,8687036		18'		0,4953324		0,8687036	
12'	0,4878597	423,2	0,8729221	236,6	48'	42'	0,4954587		0,8686315		18'		0,4954587		0,8686315	
30'	0,4879867	423,1	0,8728511	236,7	30'	43'	0,4955850		0,8685594		17'		0,4955850		0,8685594	
13'	0,4881136	423,0	0,8727801		47'	43'	0,4957113		0,8684873		17'		0,4957113		0,8684873	
30'	0,4882405		0,8727091		30'	44'	0,4958376		0,8684152		16'		0,4958376		0,8684152	
14'	0,4883674		0,8726381	236,8	44'	44'	0,4959639		0,8683431		16'		0,4959639		0,8683431	
30'	0,4884943		0,8725671	236,9	30'	45'	0,4960902		0,8682710		15'		0,4960902		0,8682710	
15'	0,4886212		0,8724960		45'	45'	0,4962165		0,8681988		15'		0,4962165		0,8681988	
30'	0,4887481	422,9	0,8724249	237,0	30'	46'	0,4963428		0,8681266		14'		0,4963428		0,8681266	
16'	0,4888750	422,8	0,8723533		44'	46'	0,4964690		0,8680544		14'		0,4964690		0,8680544	
30'	0,4890019		0,8722827		30'	47'	0,4965952		0,8679822		13'		0,4965952		0,8679822	
17'	0,4891288		0,8722116	237,1	43'	47'	0,4967215		0,8679100		13'		0,4967215		0,8679100	
30'	0,4892557		0,8721405	237,2	30'	48'	0,4968478		0,8678378		12'		0,4968478		0,8678378	
18'	0,4893825		0,8720693		42'	48'	0,4969740		0,8677655		12'		0,4969740		0,8677655	
30'	0,4895093		0,8719981	237,3	30'	49'	0,4971002		0,8676932		11'		0,4971002		0,8676932	
19'	0,4896361	422,7	0,8719269	237,4	41'	49'	0,4972264		0,8676209		11'		0,4972264		0,8676209	
30'	0,4897629		0,8718557	237,5	30'	50'	0,4973526		0,8675486		10'		0,4973526		0,8675486	
20'	0,4898897		0,8717844		40'	50'	0,4974787		0,8674762		10'		0,4974787		0,8674762	
30'	0,4900165	422,6	0,8717132	237,6	30'	51'	0,4976049		0,8674038		9'		0,4976049		0,8674038	
21'	0,4901433	422,5	0,8716419		37'	51'	0,4977310		0,8673314		9'		0,4977310		0,8673314	
30'	0,4902701		0,8715706	237,7	30'	52'	0,4978572		0,8672590		8'		0,4978572		0,8672590	
22'	0,4903968		0,8714993	237,8	30'	53'	0,4979833		0,8671866		8'		0,4979833		0,8671866	
30'	0,4905236	422,4	0,8714280	237,9	30'	54'	0,4981094		0,8671142		7'		0,4981094		0,8671142	
23'	0,4906503	422,3	0,8713566		37'	54'	0,4982355		0,8670417		7'		0,4982355		0,8670417	
30'	0,4907771		0,8712852	238,0	30'	55'	0,4983616		0,8669692		6'		0,4983616		0,8669692	
24'	0,4909038		0,8712138		36'	54'	0,4984877		0,8668967		6'		0,4984877		0,8668967	
30'	0,4910305		0,8711424	238,1	30'	56'	0,4986138		0,8668242		5'		0,4986138		0,8668242	
25'	0,4911572		0,8710710		35'	55'	0,4987399		0,8667517		5'		0,4987399		0,8667517	
30'	0,4912839	422,2	0,8709996	238,2	30'	56'	0,4988660		0,8666792		4'		0,4988660		0,8666792	
26'	0,4914105	422,0	0,8709281		34'	56'	0,4989920		0,8666066		4'		0,4989920		0,8666066	
30'	0,4915371	422,1	0,8708566	238,3	30'	57'	0,4991181		0,8665340		3'		0,4991181		0,8665340	
27'	0,4916638	422,3	0,8707851	238,4	30'	57'	0,4992441		0,8664614		3'		0,4992441		0,8664614	
30'	0,4917905	422,2	0,8707136	238,5	30'	58'	0,4993701		0,8663888		2'		0,4993701		0,8663888	
28'	0,4919171		0,8706420		32'	58'	0,4994961		0,8663161		2'		0,4994961		0,8663161	
30'	0,4920438	422,1	0,8705705	238,6	30'	59'	0,4996221		0,8662435		1'		0,4996221		0,8662435	
29'	0,4921704	422,0	0,8704989	238,7	30'	59'	0,4997481		0,8661708		1'		0,4997481		0,8661708	
30'	0,4922970	422,9	0,8704273		30'	60'	0,4998741		0,8660981		0'		0,4998741		0,8660981	
30'	0,4924236		0,8703557		30'	60'	0,5000000		0,8660254		0'		0,5000000		0,8660254	
	co-sin.	10''	sin.	10''			co-sin.	10''	sin.	10''			co-sin.	10''	sin.	10''
		diff.		diff.				diff.		diff.				diff.		diff.

60 deg.

30 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,5000000		0,8660254		60'	30'	0,5075384		0,8616292		30'		0,5075384		0,8616292	
30'	0,5001260	419,8	0,8659527	242,5	30'	30'	0,5076637	417,7	0,8615554	246,2	30'		0,5076637	417,7	0,8615554	
1'	0,5002519		0,8658799	242,6	57'	31'	0,5077890		0,8614815		23'		0,5077890		0,8614815	
30'	0,5003778		0,8658071	242,7	36'	36'	0,5079143		0,8614076		30'		0,5079143		0,8614076	
2'	0,5005037	419,7	0,8657343		58'	32'	0,5080396	417,6	0,8613337	246,3	23'		0,5080396	417,6	0,8613337	
30'	0,5006297		0,8656615		36'	36'	0,5081648	417,5	0,8612598	246,4	30'		0,5081648	417,5	0,8612598	
3'	0,5007556		0,8655887	242,8	57'	33'	0,5082901		0,8611859		27'		0,5082901		0,8611859	
30'	0,5008815		0,8655159	242,9	36'	36'	0,5084153		0,8611120		30'		0,5084153		0,8611120	
4'	0,5010073	419,6	0,8654430	243,0	56'	34'	0,5085406	417,4	0,8610380	246,5	26'		0,5085406	417,4	0,8610380	
30'	0,5011332	419,5	0,8653701		36'	36'	0,5086658	417,3	0,8609640	246,6	26'		0,5086658	417,3	0,8609640	
5'	0,5012591		0,8652972		55'	35'	0,5087910		0,8608900		25'		0,5087910		0,8608900	
30'	0,5013849		0,8652243	243,1	36'	36'	0,5089162		0,8608160		30'		0,5089162		0,8608160	
6'	0,5015107	419,4	0,8651514	243,2	54'	36'	0,5090414		0,8607420		24'		0,5090414		0,8607420	
30'	0,5016366	419,3	0,8650785		36'	36'	0,5091666		0,8606680	246,8	30'		0,5091666		0,8606680	
7'	0,5017624		0,8650055	243,3	53'	37'	0,5092918	417,2	0,8605939	247,0	23'		0,5092918	417,2	0,8605939	
30'	0,5018882		0,8649325	243,4	36'	36'	0,5094170		0,8605198		30'		0,5094170		0,8605198	
8'	0,5020140	419,2	0,8648595	243,5	52'	38'	0,5095421		0,8604457	247,1	22'		0,5095421		0,8604457	
30'	0,5021398		0,8647864		36'	36'	0,5096673	417,1	0,8603716	247,2	30'		0,5096673	417,1	0,8603716	
9'	0,5022655		0,8647134		51'	39'	0,5097924	417,0	0,8602974	247,3	21'		0,5097924	417,0	0,8602974	
30'	0,5023912		0,8646404	243,6	36'	36'	0,5099175		0,8602232		30'		0,5099175		0,8602232	
10'	0,5025170		0,8645673		50'	40'	0,5100426		0,8601491		20'		0,5100426		0,8601491	
30'	0,5026428		0,8644942	243,7	36'	36'	0,5101677		0,8600749	247,3	30'		0,5101677		0,8600749	
11'	0,5027685	419,1	0,8644211	243,8	49'	41'	0,5102928	415,9	0,8600007	247,4	19'		0,5102928	415,9	0,8600007	
30'	0,5028942	419,0	0,8643480	243,9	36'	36'	0,5104179	416,8	0,8599265	247,5	30'		0,5104179	416,8	0,8599265	
12'	0,5030199		0,8642748	244,0	48'	42'	0,5105429		0,8598522		18'		0,5105429		0,8598522	
30'	0,5031456		0,8642016		36'	36'	0,5106679		0,8597780		30'		0,5106679		0,8597780	
13'	0,5032713		0,8641284		47'	43'	0,5107930		0,8597037	247,6	17'		0,5107930		0,8597037	
30'	0,5033970		0,8640552	244,1	36'	36'	0,5109181		0,8596294	247,7	30'		0,5109181		0,8596294	
14'	0,5035227	418,9	0,8639820	244,2	46'	44'	0,5110431	416,7	0,8595551	247,8	16'		0,5110431	416,7	0,8595551	
30'	0,5036484	418,8	0,8639088		36'	36'	0,5111681		0,8594808	247,9	30'		0,5111681		0,8594808	
15'	0,5037740		0,8638355	244,3	45'	45'	0,5112931		0,8594064		15'		0,5112931		0,8594064	
30'	0,5038996		0,8637622		36'	36'	0,5114181		0,8593320	248,0	30'		0,5114181		0,8593320	
16'	0,5040252	418,7	0,8636889	244,4	44'	46'	0,5115431	416,6	0,8592576	248,1	14'		0,5115431	416,6	0,8592576	
30'	0,5041508		0,8636155		36'	36'	0,5116681	416,5	0,8591832	248,2	30'		0,5116681	416,5	0,8591832	
17'	0,5042765		0,8635423	244,5	43'	47'	0,5117930		0,8591088		13'		0,5117930		0,8591088	
30'	0,5044021		0,8634690	244,6	36'	36'	0,5119180		0,8590343	248,3	30'		0,5119180		0,8590343	
18'	0,5045276	418,6	0,8633956	244,7	42'	48'	0,5120429	416,4	0,8589599	248,4	12'		0,5120429	416,4	0,8589599	
30'	0,5046532	418,5	0,8633222		36'	36'	0,5121678		0,8588854	248,5	30'		0,5121678		0,8588854	
19'	0,5047788		0,8632488	244,8	41'	49'	0,5122927	416,3	0,8588109	248,6	11'		0,5122927	416,3	0,8588109	
30'	0,5049043		0,8631754	244,9	36'	36'	0,5124176		0,8587364		30'		0,5124176		0,8587364	
20'	0,5050298	418,4	0,8631019		40'	50'	0,5125425	416,2	0,8586618	248,7	10'		0,5125425	416,2	0,8586618	
30'	0,5051554		0,8630284	245,0	36'	36'	0,5126674		0,8585873	248,8	30'		0,5126674		0,8585873	
21'	0,5052809		0,8629549		39'	51'	0,5127923		0,8585127	248,9	9'		0,5127923		0,8585127	
30'	0,5054064		0,8628814	245,1	36'	36'	0,5129171		0,8584381	249,0	30'		0,5129171		0,8584381	
22'	0,5055319	418,2	0,8628079	245,2	38'	52'	0,5130420	416,1	0,8583635	249,1	8'		0,5130420	416,1	0,8583635	
30'	0,5056573		0,8627344		36'	36'	0,5131668		0,8582888		30'		0,5131668		0,8582888	
23'	0,5057828		0,8626608	245,3	37'	53'	0,5132916	416,0	0,8582142	249,2	7'		0,5132916	416,0	0,8582142	
30'	0,5059083		0,8625872		36'	36'	0,5134164		0,8581396	249,3	30'		0,5134164		0,8581396	
24'	0,5060338		0,8625136		36'	54'	0,5135413		0,8580649	249,4	6'		0,5135413		0,8580649	
30'	0,5061592		0,8624400	245,4	36'	36'	0,5136660		0,8579902	249,5	30'		0,5136660		0,8579902	
25'	0,5062846		0,8623664	245,5	35'	55'	0,5137908		0,8579155	249,6	5'		0,5137908		0,8579155	
30'	0,5064101		0,8622928		36'	36'	0,5139156		0,8578408	249,7	30'		0,5139156		0,8578408	
26'	0,5065355	418,1	0,8622191	245,6	34'	56'	0,5140404	415,9	0,8577660	249,8	4'		0,5140404	415,9	0,8577660	
30'	0,5066609	418,0	0,8621454	245,7	36'	36'	0,5141651		0,8576912	249,9	30'		0,5141651		0,8576912	
27'	0,5067863	417,9	0,8620717		33'	57'	0,5142899	415,8	0,8576164	250,0	3'		0,5142899	415,8	0,8576164	
30'	0,5069116	417,8	0,8619980		36'	36'	0,5144146		0,8575416		30'		0,5144146		0,8575416	
28'	0,5070370		0,8619243	245,8	32'	58'	0,5145393		0,8574668	249,4	2'		0,5145393		0,8574668	
30'	0,5071624		0,8618506		36'	36'	0,5146640		0,8573920	249,5	30'		0,5146640		0,8573920	
29'	0,5072877		0,8617768	245,9	31'	59'	0,5147887		0,8573171	249,6	1'		0,5147887		0,8573171	
30'	0,5074131		0,8617030	246,0	36'	36'	0,5149134	415,6	0,8572422	249,7	30'		0,5149134	415,6	0,8572422	
30'	0,5075384		0,8616292	246,1	30'	60'	0,5150381		0,8571673		0'		0,5150381		0,8571673	
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

59 deg.



31 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,5150381	415,5	0,8571673	249,8	60'	30'	0,5224986	413,3	0,8525402	253,5	30'
30'	0,5151628		0,8570323		30'	30'	0,5225226		0,8525642		30'
1'	0,5152874		0,8570174		50'	31'	0,5227466		0,8524881		29'
30'	0,5154121	415,4	0,8569425	249,9	30'	30'	0,5228706	413,2	0,8524121	253,6	30'
2'	0,5155367	415,3	0,8568675	250,0	58'	32'	0,5229345		0,8523360	253,7	28'
30'	0,5156613		0,8567925	250,1	30'	30'	0,5231184		0,8522599		30'
30'	0,5157859		0,8567175	250,2	57'	33'	0,5232424		0,8521838		27'
30'	0,5159105		0,8566425		30'	30'	0,5233664	413,1	0,8521077		30'
4'	0,5160351	415,2	0,8565674	250,3	56'	34'	0,5234903	413,0	0,8520316	253,8	26'
30'	0,5161597		0,8564923	250,4	30'	30'	0,5236142		0,8519555	253,9	26'
5'	0,5162842		0,8564173	250,5	55'	35'	0,5237381		0,8518793	254,0	25'
30'	0,5164088		0,8563422	250,6	30'	30'	0,5238620	412,9	0,8518031	254,1	30'
6'	0,5165333		0,8562671	250,7	54'	36'	0,5239859	412,8	0,8517269	254,2	24'
30'	0,5166579	415,1	0,8561920	250,8	30'	30'	0,5241098		0,8516506		30'
7'	0,5167824	415,0	0,8561168	250,9	53'	37'	0,5242336		0,8515744	254,3	23'
30'	0,5169069		0,8560415	251,0	30'	30'	0,5243574		0,8514981		30'
8'	0,5170314		0,8559664	251,1	52'	38'	0,5244813		0,8514219	254,4	22'
30'	0,5171559	414,9	0,8558912	251,2	30'	30'	0,5246051		0,8513456	254,5	30'
9'	0,5172804	414,8	0,8558160	251,3	51'	39'	0,5247290	412,7	0,8512693		24'
30'	0,5174048		0,8557408	251,4	30'	30'	0,5248528	412,6	0,8511929		30'
10'	0,5175293		0,8556655	251,5	50'	40'	0,5249766		0,8511166	254,6	20'
30'	0,5176537		0,8555902	251,6	30'	30'	0,5251004	412,5	0,8510403	254,7	30'
11'	0,5177782	414,7	0,8555149	251,7	49'	41'	0,5252241		0,8509639	254,8	19'
30'	0,5179026		0,8554396	251,8	30'	30'	0,5253479		0,8508875		24'
12'	0,5180270		0,8553642	251,9	48'	42'	0,5254717	412,4	0,8508111	254,9	18'
30'	0,5181514		0,8552889	252,0	30'	30'	0,5255954	412,3	0,8507347	255,0	30'
13'	0,5182758		0,8552135	252,1	47'	43'	0,5257191		0,8506582	255,1	30'
30'	0,5184002	414,6	0,8551381	252,2	30'	30'	0,5258428		0,8505817		30'
14'	0,5185246	414,5	0,8550627	252,3	46'	44'	0,5259665	412,2	0,8505052	255,2	16'
30'	0,5186490	414,4	0,8549872	252,4	30'	30'	0,5260902		0,8504287	255,3	30'
15'	0,5187733	414,3	0,8549118	252,5	45'	45'	0,5262139	412,1	0,8503522	255,4	15'
30'	0,5188976		0,8548364	252,6	30'	30'	0,5263376		0,8502757	255,5	30'
16'	0,5190219		0,8547609	252,7	44'	46'	0,5264613		0,8501991	255,6	14'
30'	0,5191462		0,8546854	252,8	30'	30'	0,5265849	412,0	0,8501225	255,7	30'
17'	0,5192705		0,8546099	252,9	43'	47'	0,5267085		0,8500459	255,8	13'
30'	0,5193948	414,2	0,8545344	253,0	30'	30'	0,5268322		0,8499693	255,9	30'
18'	0,5195191		0,8544588	253,1	42'	48'	0,5269558	411,9	0,8498927	256,0	12'
30'	0,5196434		0,8543832	253,2	30'	30'	0,5270794		0,8498161	256,1	30'
19'	0,5197676		0,8543076	253,3	41'	49'	0,5272030	411,8	0,8497394	256,2	11'
30'	0,5198919		0,8542320	253,4	30'	30'	0,5273266		0,8496627	256,3	30'
20'	0,5200161		0,8541564	253,5	40'	50'	0,5274502		0,8495860	256,4	10'
30'	0,5201404	414,1	0,8540808	253,6	30'	30'	0,5275738	411,7	0,8495093	256,5	30'
21'	0,5202646	414,0	0,8540051	253,7	30'	51'	0,5276973		0,8494325	256,6	9'
30'	0,5203888	413,9	0,8539297	253,8	30'	30'	0,5278208	411,6	0,8493558	256,7	30'
22'	0,5205130	413,8	0,8538537	253,9	30'	52'	0,5279443		0,8492790	256,8	8'
30'	0,5206372		0,8537780	254,0	30'	30'	0,5280679		0,8492022	256,9	30'
23'	0,5207613		0,8537023	254,1	30'	53'	0,5281914	411,5	0,8491254	257,0	7'
30'	0,5208854		0,8536266	254,2	30'	30'	0,5283149		0,8490486	257,1	30'
24'	0,5210096		0,8535508	254,3	30'	54'	0,5284383		0,8489717	257,2	6'
30'	0,5211338		0,8534750	254,4	30'	30'	0,5285618	411,4	0,8488948	257,3	30'
25'	0,5212579	413,7	0,8533992	254,5	30'	55'	0,5286853		0,8488179	257,4	5'
30'	0,5213820		0,8533234	254,6	30'	30'	0,5288088		0,8487410	257,5	30'
26'	0,5215061		0,8532475	254,7	30'	56'	0,5289322	411,3	0,8486641	257,6	4'
30'	0,5216302	413,6	0,8531717	254,8	30'	30'	0,5290556		0,8485872	257,7	30'
27'	0,5217543	413,5	0,8530958	254,9	30'	57'	0,5291790		0,8485102	257,8	30'
30'	0,5218784		0,8530199	255,0	30'	30'	0,5293024		0,8484332	257,9	30'
28'	0,5220024		0,8529440	255,1	30'	58'	0,5294258	411,2	0,8483562	258,0	2'
30'	0,5221264		0,8528681	255,2	30'	30'	0,5295492		0,8482792	258,1	30'
29'	0,5222503		0,8527921	255,3	30'	59'	0,5296726	411,1	0,8482022	258,2	30'
30'	0,5223746	413,4	0,8527162	255,4	30'	30'	0,5297960		0,8481252	258,3	30'
30'	0,5224985		0,8526402	255,5	30'	60'	0,5299193		0,8480481	258,4	0'
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.	

58 deg.

32 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,5299193	411,0	0,8480481	257,0	60'	0,5372796	408,8	0,8433914	262,5	30'	
30'	0,5300426		0,8479710	257,1	30'	0,5374223		0,8433133	260,6	30'	
1'	0,5301659		0,8478939	257,2	5'	0,5375649		0,8432351	260,7	29'	
30'	0,5302892	410,9	0,8478168	257,3	35'	0,5377075	408,7	0,8431569	260,8	30'	
2'	0,5304125		0,8477396		58'	0,5378502		0,8430787	260,9	26'	
30'	0,5305358		0,8476624		36'	0,5379928		0,8430005	261,0	36'	
3'	0,5306591	410,8	0,8475853	257,4	57'	0,5381354	408,6	0,8429222	261,1	27'	
30'	0,5307824		0,8475086		36'	0,5382780		0,8428440	261,2	36'	
4'	0,5309057		0,8474309		56'	0,5384206		0,8427657	261,3	26'	
30'	0,5310289	410,7	0,8473537	257,5	36'	0,5385632	408,5	0,8426874	261,4	36'	
5'	0,5311521		0,8472764		55'	0,5387058		0,8426091	261,5	25'	
30'	0,5312754		0,8471992		36'	0,5388483		0,8425308	261,6	36'	
6'	0,5313986	410,6	0,8471219	257,6	54'	0,5389908	408,4	0,8424524	261,7	24'	
30'	0,5315218		0,8470446		36'	0,5391333		0,8423740	261,8	36'	
7'	0,5316450		0,8469673		53'	0,5392758		0,8422955	261,9	23'	
30'	0,5317681	410,5	0,8468900	257,7	36'	0,5394183	408,3	0,8422172	262,0	36'	
8'	0,5318913		0,8468126		52'	0,5395608		0,8421388	262,1	22'	
30'	0,5320145		0,8467352		36'	0,5397033		0,8420604	262,2	36'	
9'	0,5321376	410,4	0,8466578	257,8	51'	0,5398458	408,2	0,8419819	262,3	21'	
30'	0,5322608		0,8465804		253,1	36'		0,5399883	0,8419034	262,4	36'
10'	0,5323839		0,8465030		253,2	50'		0,5401308	0,8418249	262,5	20'
30'	0,5325070	410,3	0,8464256	258,3	36'	0,5402733	408,1	0,8417464	262,6	36'	
11'	0,5326301		0,8463481		49'	0,5404158		0,8416679	262,7	19'	
30'	0,5327532		0,8462706		36'	0,5405583		0,8415894	262,8	36'	
12'	0,5328763	410,2	0,8461931	258,4	48'	0,5407008	408,0	0,8415108	262,9	18'	
30'	0,5330000		0,8461156		36'	0,5408433		0,8414322	263,0	36'	
13'	0,5331224		0,8460381		47'	0,5409858		0,8413536	263,1	17'	
30'	0,5332455	410,1	0,8459611	258,5	36'	0,5411283	407,9	0,8412750	263,2	36'	
14'	0,5333685		0,8458836		46'	0,5412708		0,8411963	263,3	16'	
30'	0,5334915		0,8458064		36'	0,5414133		0,8411177	263,4	36'	
15'	0,5336145	410,0	0,8457288	258,6	45'	0,5415558	407,8	0,8410390	263,5	15'	
30'	0,5337375		0,8456502		36'	0,5416983		0,8409603	263,6	36'	
16'	0,5338605		0,8455725		44'	0,5418408		0,8408816	263,7	14'	
30'	0,5339835	409,9	0,8454949	258,7	36'	0,5419833	407,7	0,8408029	263,8	36'	
17'	0,5341065		0,8454172		43'	0,5421258		0,8407241	263,9	13'	
30'	0,5342294		0,8453395		36'	0,5422683		0,8406454	264,0	36'	
18'	0,5343523	409,8	0,8452618	258,8	42'	0,5424108	407,6	0,8405666	264,1	12'	
30'	0,5344752		0,8451841		36'	0,5425533		0,8404878	264,2	36'	
19'	0,5345982		0,8451064		41'	0,5426958		0,8404090	264,3	11'	
30'	0,5347211	409,7	0,8450285	258,9	36'	0,5428383	407,5	0,8403302	264,4	36'	
20'	0,5348440		0,8449508		40'	0,5429808		0,8402514	264,5	10'	
30'	0,5349669		0,8448730		36'	0,5431233		0,8401726	264,6	36'	
21'	0,5350898	409,6	0,8447952	258,0	51'	0,5432658	407,4	0,8400938	264,7	9'	
30'	0,5352127		0,8447174		36'	0,5434083		0,8400150	264,8	36'	
22'	0,5353355		0,8446395		35'	0,5435508		0,8399362	264,9	18'	
30'	0,5354584	409,5	0,8445616	258,1	36'	0,5436933	407,3	0,8398574	265,0	36'	
23'	0,5355812		0,8444837		37'	0,5438358		0,8397786	265,1	17'	
30'	0,5357040		0,8444058		36'	0,5439783		0,8396998	265,2	36'	
24'	0,5358268	409,4	0,8443279	258,2	54'	0,5441208	407,2	0,8396210	265,3	16'	
30'	0,5359496		0,8442500		36'	0,5442633		0,8395422	265,4	36'	
25'	0,5360724		0,8441720		35'	0,5444058		0,8394634	265,5	15'	
30'	0,5361952	409,3	0,8440940	258,3	36'	0,5445483	407,1	0,8393846	265,6	36'	
26'	0,5363179		0,8440160		34'	0,5446908		0,8393058	265,7	14'	
30'	0,5364407		0,8439380		36'	0,5448333		0,8392270	265,8	36'	
27'	0,5365634	409,2	0,8438600	258,4	33'	0,5449758	406,9	0,8391482	265,9	13'	
30'	0,5366861		0,8437820		36'	0,5451183		0,8390694	266,0	36'	
28'	0,5368088		0,8437039		32'	0,5452608		0,8389906	266,1	12'	
30'	0,5369316	409,1	0,8436258	258,5	36'	0,5454033	406,8	0,8389118	266,2	36'	
29'	0,5370543		0,8435477		31'	0,5455458		0,8388330	266,3	11'	
30'	0,5371770		0,8434696		36'	0,5456883		0,8387542	266,4	36'	
30'	0,5372996	408,9	0,8433914	259,2	30'	0,5458308	406,7	0,8386754	266,5	10'	
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.		

57 deg.

33 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,5446390	406,7	0,8385705	264,2	60'	30'	0,5519370	404,2	0,8338553	267,7	30'
30'	0,5447510	406,6	0,8385913		30'	30'	0,5520583		0,8338055		30'
1'	0,5448330	406,5	0,8385121		59'	31'	0,5521795		0,8337252	267,8	20'
30'	0,5450050	406,4	0,8384329		30'	30'	0,5523008		0,8336449		30'
2'	0,5451269	406,3	0,8383536	264,3	58'	32'	0,5524220		0,8335645	267,8	28'
30'	0,5452488		0,8382743	264,4	30'	30'	0,5525433	404,1	0,8334842	267,9	30'
30'	0,5453707		0,8381950	264,5	57'	33'	0,5526645	404,0	0,8334038	268,0	27'
30'	0,5454926		0,8381157	264,6	30'	30'	0,5527857	403,9	0,8333234	268,1	30'
40'	0,5456145		0,8380363	264,7	56'	34'	0,5529069	403,8	0,8332430	268,2	26'
30'	0,5457364		0,8379569		30'	30'	0,5530281		0,8331626	268,2	30'
50'	0,5458583	406,2	0,8378775	264,8	55'	35'	0,5531492		0,8330821	268,3	25'
30'	0,5459802	406,1	0,8377981	264,9	30'	30'	0,5532703		0,8330017	268,3	30'
60'	0,5461020	406,0	0,8377187	265,0	54'	36'	0,5533915	403,7	0,8329212	268,4	24'
30'	0,5462238		0,8376393	265,1	30'	30'	0,5535126		0,8328407	268,4	30'
70'	0,5463456		0,8375598	265,2	53'	37'	0,5536338	403,6	0,8327602	268,5	23'
30'	0,5464674		0,8374803		30'	30'	0,5537549		0,8326797	268,5	30'
80'	0,5465892		0,8374008		52'	38'	0,5538760		0,8325991	268,6	22'
30'	0,5467110	405,9	0,8373213	265,1	30'	30'	0,5539971	403,5	0,8325186	268,6	30'
90'	0,5468328	405,8	0,8372418	265,2	51'	39'	0,5541182	403,5	0,8324380	268,7	21'
30'	0,5469545		0,8371623		30'	30'	0,5542393		0,8323574	268,7	30'
100'	0,5470763		0,8370827		50'	40'	0,5543603		0,8322768	268,8	20'
30'	0,5471981		0,8370031	265,3	30'	30'	0,5544814	403,4	0,8321962	268,8	30'
110'	0,5473198	405,7	0,8369235	265,3	49'	41'	0,5546024	403,3	0,8321155	268,9	19'
30'	0,5474415		0,8368439	265,4	30'	30'	0,5547234		0,8320348	269,0	30'
120'	0,5475632		0,8367643	265,5	48'	42'	0,5548444		0,8319541	269,0	18'
30'	0,5476849	405,6	0,8366847	265,6	30'	30'	0,5549654		0,8318734	269,1	30'
130'	0,5478065	405,5	0,8366050	265,7	47'	43'	0,5550864	403,2	0,8317927	269,1	17'
30'	0,5479283		0,8365253		30'	30'	0,5552074		0,8317120	269,2	30'
140'	0,5480499		0,8364456		46'	44'	0,5553283		0,8316312	269,3	16'
30'	0,5481716		0,8363659	265,8	30'	30'	0,5554492		0,8315504	269,4	30'
150'	0,5482932		0,8362861		45'	45'	0,5555702		0,8314696	269,5	15'
30'	0,5484149	405,4	0,8362064	265,9	30'	30'	0,5556912	403,1	0,8313887	269,5	30'
160'	0,5485365	405,3	0,8361266	266,0	44'	46'	0,5558121	403,0	0,8313079	269,6	14'
30'	0,5486581		0,8360468	266,1	30'	30'	0,5559330	402,9	0,8312270	269,6	30'
170'	0,5487797	405,2	0,8359670	266,2	43'	47'	0,5560539	402,8	0,8311462	269,7	13'
30'	0,5489013		0,8358872		30'	30'	0,5561747		0,8310653	269,7	30'
180'	0,5490228		0,8358073		42'	48'	0,5562956		0,8309844	269,8	12'
30'	0,5491444	405,1	0,8357275	266,3	30'	30'	0,5564164	402,7	0,8309035	269,8	30'
190'	0,5492659		0,8356476	266,4	41'	49'	0,5565373	402,6	0,8308226	269,9	11'
30'	0,5493875		0,8355677	266,5	30'	30'	0,5566582		0,8307417	269,9	30'
200'	0,5495090	405,0	0,8354878	266,5	40'	50'	0,5567790	402,7	0,8306607	270,0	10'
30'	0,5496305		0,8354079	266,6	30'	30'	0,5568998	402,6	0,8305797	270,1	30'
210'	0,5497520		0,8353279		30'	51'	0,5570206	402,5	0,8304987	270,2	9'
30'	0,5498735	404,9	0,8352479	266,6	30'	30'	0,5571414		0,8304177	270,3	30'
220'	0,5499950	404,8	0,8351680	266,7	30'	52'	0,5572621		0,8303366	270,4	8'
30'	0,5501165		0,8350880		30'	30'	0,5573828		0,8302556	270,5	30'
230'	0,5502379		0,8350080	266,8	37'	53'	0,5575035		0,8301745	270,6	7'
30'	0,5503593	404,7	0,8349280	266,9	30'	30'	0,5576243	402,4	0,8300934	270,7	30'
240'	0,5504807		0,8348479	267,0	30'	54'	0,5577451	402,3	0,8300123	270,8	5'
30'	0,5506022		0,8347678		30'	30'	0,5578658		0,8299312	270,9	30'
250'	0,5507236		0,8346877		35'	55'	0,5579865		0,8298500	271,0	6'
30'	0,5508450		0,8346076	267,1	30'	30'	0,5581072		0,8297688	271,1	30'
260'	0,5509663	404,5	0,8345275	267,2	34'	56'	0,5582279	402,2	0,8296876	271,2	4'
30'	0,5510877		0,8344474	267,3	30'	30'	0,5583485		0,8296064	271,3	30'
270'	0,5512091		0,8343672		33'	57'	0,5584692		0,8295252	271,4	30'
30'	0,5513305	404,4	0,8342870	267,4	30'	30'	0,5585899	402,1	0,8294440	271,5	30'
280'	0,5514518	404,3	0,8342068	267,5	32'	58'	0,5587105	402,0	0,8293627	271,6	2'
30'	0,5515731		0,8341266		30'	30'	0,5588311		0,8292815	271,7	30'
290'	0,5516944		0,8340463		31'	59'	0,5589517	401,9	0,8292002	271,8	1'
30'	0,5518157		0,8339661	267,6	30'	30'	0,5590723		0,8291190	271,9	30'
300'	0,5519370		0,8338858		30'	60'	0,5591929		0,8290376	272,0	0'
co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.			

34 deg

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"	
0'	0,5591929	401,8	0,8290376	271,2	60'	30'	0,5664062	399,5	0,8241262	274,7	30'						
30'	0,5593135		0,8289563		30'	30'	0,5665261		0,8240438		30'						
1'	0,5594340	401,7	0,8288749	271,3	50'	31'	0,5666459	399,3	0,8239614	274,8	20'						
30'	0,5595545		0,8287935		30'	30'	0,5667657		0,8238790		30'						
2'	0,5596751	401,5	0,8287121	271,4	50'	32'	0,5668855	399,1	0,8237965	274,9	20'						
30'	0,5597957		0,8286307		30'	30'	0,5670054		0,8237141		30'						
3'	0,5599162	401,4	0,8285493	271,5	57'	33'	0,5671252	399,0	0,8236316	275,0	27'						
30'	0,5600367		0,8284679		30'	30'	0,5672450		0,8235491		30'						
4'	0,5601572	401,3	0,8283864	271,6	56'	34'	0,5673648	399,2	0,8234666	275,1	26'						
30'	0,5602777		0,8283049		30'	30'	0,5674846		0,8233841		30'						
5'	0,5603981	401,2	0,8282234	271,7	55'	35'	0,5676043	399,0	0,8233015	275,2	25'						
30'	0,5605186		0,8281418		30'	30'	0,5677240		0,8232190		30'						
6'	0,5606390	401,1	0,8280603	271,8	54'	36'	0,5678437	398,9	0,8231364	275,3	24'						
30'	0,5607594		0,8279788		30'	30'	0,5679635		0,8230538		30'						
7'	0,5608798	401,0	0,8278972	271,9	53'	37'	0,5680832	398,8	0,8229712	275,4	23'						
30'	0,5610002		0,8278156		30'	30'	0,5682029		0,8228886		30'						
8'	0,5611206	401,0	0,8277340	272,0	52'	38'	0,5683225	398,7	0,8228059	275,5	22'						
30'	0,5612410		0,8276524		30'	30'	0,5684422		0,8227232		30'						
9'	0,5613614	401,0	0,8275707	272,1	51'	39'	0,5685619	398,6	0,8226405	275,6	21'						
30'	0,5614818		0,8274891		30'	30'	0,5686815		0,8225578		30'						
10'	0,5616021	401,0	0,8274074	272,2	50'	40'	0,5688011	398,5	0,8224751	275,7	20'						
30'	0,5617225		0,8273257		30'	30'	0,5689207		0,8223924		30'						
11'	0,5618428	401,0	0,8272440	272,3	49'	41'	0,5690403	398,4	0,8223096	275,8	19'						
30'	0,5619631		0,8271623		30'	30'	0,5691599		0,8222268		30'						
12'	0,5620834	400,9	0,8270805	272,4	48'	42'	0,5692795	398,3	0,8221440	275,9	18'						
30'	0,5622037		0,8269988		30'	30'	0,5693991		0,8220612		30'						
13'	0,5623239	400,8	0,8269170	272,5	47'	43'	0,5695187	398,2	0,8219784	276,0	17'						
30'	0,5624442		0,8268352		30'	30'	0,5696382		0,8218956		30'						
14'	0,5625645	400,7	0,8267534	272,6	46'	44'	0,5697577	398,1	0,8218127	276,1	16'						
30'	0,5626847		0,8266716		30'	30'	0,5698773		0,8217298		30'						
15'	0,5628049	400,7	0,8265897	272,7	45'	45'	0,5699968	398,0	0,8216469	276,2	15'						
30'	0,5629251		0,8265079		30'	30'	0,5701163		0,8215640		30'						
16'	0,5630453	400,6	0,8264260	272,8	44'	46'	0,5702357	397,9	0,8214811	276,3	14'						
30'	0,5631655		0,8263441		30'	30'	0,5703552		0,8213982		30'						
17'	0,5632857	400,5	0,8262622	272,9	43'	47'	0,5704747	397,8	0,8213152	276,4	13'						
30'	0,5634059		0,8261803		30'	30'	0,5705942		0,8212322		30'						
18'	0,5635260	400,4	0,8260983	273,0	42'	48'	0,5707136	397,7	0,8211492	276,5	12'						
30'	0,5636462		0,8260163		30'	30'	0,5708330		0,8210662		30'						
19'	0,5637663	400,3	0,8259343	273,1	41'	49'	0,5709524	397,6	0,8209831	276,6	11'						
30'	0,5638864		0,8258523		30'	30'	0,5710718		0,8209001		30'						
20'	0,5640065	400,2	0,8257703	273,2	40'	50'	0,5711912	397,5	0,8208170	276,7	10'						
30'	0,5641267		0,8256882		30'	30'	0,5713106		0,8207339		30'						
21'	0,5642467	400,1	0,8256062	273,3	39'	51'	0,5714299	397,4	0,8206508	276,8	9'						
30'	0,5643668		0,8255241		30'	30'	0,5715492		0,8205677		30'						
22'	0,5644869	400,0	0,8254420	273,4	38'	52'	0,5716686	397,3	0,8204846	276,9	8'						
30'	0,5646070		0,8253599		30'	30'	0,5717880		0,8204015		30'						
23'	0,5647270	399,9	0,8252778	273,5	37'	53'	0,5719073	397,2	0,8203183	277,0	7'						
30'	0,5648470		0,8251957		30'	30'	0,5720266		0,8202351		30'						
24'	0,5649670	399,8	0,8251135	273,6	36'	54'	0,5721459	397,1	0,8201519	277,1	6'						
30'	0,5650870		0,8250313		30'	30'	0,5722651		0,8200687		30'						
25'	0,5652070	399,7	0,8249491	273,7	35'	55'	0,5723844	397,0	0,8199854	277,2	5'						
30'	0,5653270		0,8248669		30'	30'	0,5725037		0,8199022		30'						
26'	0,5654469	399,6	0,8247847	273,8	34'	56'	0,5726229	396,9	0,8198189	277,3	4'						
30'	0,5655668		0,8247024		30'	30'	0,5727422		0,8197356		30'						
27'	0,5656868	399,5	0,8246202	273,9	33'	57'	0,5728614	396,8	0,8196523	277,4	3'						
30'	0,5658067		0,8245379		30'	30'	0,5729806		0,8195690		30'						
28'	0,5659267	399,4	0,8244556	274,0	32'	58'	0,5730998	396,7	0,8194856	277,5	2'						
30'	0,5660465		0,8243733		30'	30'	0,5732190		0,8194023		30'						
29'	0,5661665	399,3	0,8242909	274,1	31'	59'	0,5733381	396,6	0,8193189	277,6	1'						
30'	0,5662864		0,8242086		30'	30'	0,5734573		0,8192355		30'						
30'	0,5664062		0,8241262		30'	60'	0,5735764		0,8191521								
	co-sin.	10"	sin.	10"			co-sin.	10"	sin.	10"				co-sin.	10"	sin.	10"
		diff.		diff.				diff.		diff.					diff.		diff.

55 deg.



35 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"	
0'	0,5735764		0,8191521		60'	30'	0,5807030		0,8141155		30'
30'	0,5736956	397,2	0,8190687	278,2	30'	30'	0,5808214	394,7	0,8140310	281,7	30'
1	0,5738147	397,1	0,8189852		50'	31'	0,5809397	394,6	0,8139465		29'
30'	0,5739338	397,0	0,8189017	278,3	30'	30'	0,5810581	394,5	0,8138620		30'
2'	0,5740529		0,8188182		58'	32'	0,5811765		0,8137775	281,8	28'
30'	0,5741720	396,9	0,8187347	278,4	30'	30'	0,5812999		0,8136930		30'
30'	0,5742911	396,8	0,8186512	278,5	57'	33'	0,5814132	394,3	0,8136084	27'	30'
30'	0,5744102		0,8185677		30'	30'	0,5815315		0,8135239	281,9	30'
4'	0,5745292		0,8184841	278,6	56'	34'	0,5816498		0,8134393	282,0	26'
30'	0,5746482	396,7	0,8184005	278,7	30'	30'	0,5817681		0,8133547	282,1	30'
5'	0,5747672		0,8183169		55'	35'	0,5818864		0,8132701	282,2	25'
30'	0,5748863		0,8182333		30'	30'	0,5820047		0,8131854		30'
6'	0,5750053		0,8181497	278,8	54'	36'	0,5821230	394,2	0,8131008	282,3	24'
30'	0,5751243	396,6	0,8180661	278,9	30'	30'	0,5822413	394,1	0,8130161		30'
7'	0,5752432	396,5	0,8179824	279,0	53'	37'	0,5823595	394,0	0,8129314	282,4	23'
30'	0,5753622		0,8178987		30'	30'	0,5824777		0,8128467	282,5	30'
8'	0,5754811		0,8178150		52'	38'	0,5825959		0,8127620	282,6	22'
30'	0,5756001	396,4	0,8177313	279,1	30'	30'	0,5827141		0,8126773	282,7	30'
9'	0,5757190	396,3	0,8176476	279,2	51'	39'	0,5828323	393,9	0,8125925		30'
30'	0,5758379		0,8175639		30'	30'	0,5829505		0,8125077	282,8	20'
10'	0,5759568		0,8174801	279,3	50'	40'	0,5830687	393,8	0,8124229		30'
30'	0,5760757		0,8173963		30'	30'	0,5831869		0,8123380	282,9	15'
11'	0,5761946		0,8173125		49'	41'	0,5833050	393,7	0,8122532		30'
30'	0,5763135	396,2	0,8172287	279,4	30'	30'	0,5834231		0,8121684	283,0	30'
12'	0,5764323		0,8171449	279,5	48'	42'	0,5835412		0,8120836		30'
30'	0,5765512	396,1	0,8170611	279,6	30'	30'	0,5836593	393,6	0,8119988		30'
13'	0,5766700	396,0	0,8169772	279,7	47'	43'	0,5837774	393,5	0,8119139	283,1	17'
30'	0,5767888		0,8168933		30'	30'	0,5838955		0,8118290	283,2	30'
14'	0,5769076		0,8168094	279,8	46'	44'	0,5840136	393,4	0,8117441		30'
30'	0,5770264	395,9	0,8167254		30'	30'	0,5841317		0,8116592	283,3	16'
15'	0,5771452		0,8166415		45'	45'	0,5842497	393,3	0,8115740		30'
30'	0,5772640	395,8	0,8165575	279,9	30'	30'	0,5843677		0,8114889	283,4	15'
16'	0,5773827		0,8164736	280,0	44'	46'	0,5844857		0,8114038		30'
30'	0,5775015		0,8163896		30'	30'	0,5846037	393,2	0,8113187	283,5	14'
17'	0,5776202	395,7	0,8163056	280,1	43'	47'	0,5847217		0,8112336		30'
30'	0,5777389		0,8162216		30'	30'	0,5848397	393,1	0,8111485		30'
18'	0,5778576		0,8161376	280,2	42'	48'	0,5849577		0,8110634	283,6	12'
30'	0,5779763	395,6	0,8160535	280,3	30'	30'	0,5850757	393,0	0,8109783		30'
19'	0,5780950	395,5	0,8159695	280,4	41'	49'	0,5851936		0,8108932	283,7	11'
30'	0,5782136		0,8158854		30'	30'	0,5853115		0,8108081	283,8	30'
20'	0,5783323		0,8158013	280,5	40'	50'	0,5854294	392,9	0,8107230		30'
30'	0,5784509	395,4	0,8157172	280,6	30'	30'	0,5855473	392,8	0,8106379	283,9	10'
21'	0,5785696	395,3	0,8156330	280,7	30'	51'	0,5856652		0,8105528		30'
30'	0,5786882		0,8155488		30'	30'	0,5857831	392,7	0,8104677	284,0	9'
22'	0,5788069		0,8154647	280,8	58'	52'	0,5859010		0,8103826	284,1	30'
30'	0,5789254		0,8153805	280,9	30'	30'	0,5860188	392,6	0,8102974		30'
23'	0,5790440		0,8152963		37'	53'	0,5861367		0,8102123	284,2	7'
30'	0,5791626	395,2	0,8152121	281,0	30'	30'	0,5862546		0,8101271		30'
24'	0,5792812	395,1	0,8151278		36'	54'	0,5863724	392,5	0,8100420	284,3	6'
30'	0,5793998		0,8150436	281,1	30'	30'	0,5864902	392,4	0,8099568		30'
25'	0,5795183	395,0	0,8149593	281,2	30'	55'	0,5866080		0,8098716	284,4	30'
30'	0,5796368		0,8148749		30'	30'	0,5867258	392,3	0,8097864		30'
26'	0,5797553		0,8147906		31'	56'	0,5868435		0,8097012	284,5	30'
30'	0,5798738	394,9	0,8147063	281,3	30'	30'	0,5869613		0,8096160		40'
27'	0,5799923	394,8	0,8146219	281,4	30'	57'	0,5870790	392,2	0,8095308	284,6	30'
30'	0,5801107		0,8145376		30'	30'	0,5871968		0,8094456	284,7	30'
28'	0,5802292		0,8144532	281,5	30'	58'	0,5873145	392,1	0,8093604		30'
30'	0,5803477		0,8143688	281,6	30'	30'	0,5874322		0,8092752	284,8	30'
29'	0,5804661		0,8142844		31'	59'	0,5875499		0,8091899		18'
30'	0,5805845		0,8142000	281,6	30'	30'	0,5876676		0,8091047	284,9	30'
30'	0,5807030		0,8141155		30'	60'	0,5877853		0,8090194		0'
	co-sin.	diff.	sin.	diff.		co-sin.	diff.	sin.	diff.		

54 deg.

36 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,5877853	392,2	0,8090170	285,0	60'	0,5948228	389,7	0,8038569	288,5	30'	0,5948228	389,7	0,8038569	288,5
30'	0,5879030	392,1	0,8089315	285,1	30'	0,5949377	389,6	0,8037704	288,6	30'	0,5949377	389,6	0,8037704	288,6
1'	0,5880206	392,0	0,8088460	285,2	57'	0,5950566	389,5	0,8036838	288,7	29'	0,5950566	389,5	0,8036838	288,7
30'	0,5881382		0,8087605	285,3	30'	0,5951735		0,8035973	288,8	30'	0,5951735		0,8035973	288,8
2'	0,5882558		0,8086749	285,3	58'	0,5952904		0,8035107	288,9	28'	0,5952904		0,8035107	288,9
30'	0,5883734		0,8085893	285,4	30'	0,5954073		0,8034241	289,0	30'	0,5954073		0,8034241	289,0
3'	0,5884910		0,8085037	285,5	33'	0,5955241		0,8033375	289,1	27'	0,5955241		0,8033375	289,1
30'	0,5886086	391,2	0,8084181	285,6	30'	0,5956409	389,4	0,8032509	289,2	30'	0,5956409	389,4	0,8032509	289,2
4'	0,5887262	391,8	0,8083325	285,7	34'	0,5957577	389,3	0,8031642	289,3	26'	0,5957577	389,3	0,8031642	289,3
30'	0,5888438		0,8082469	285,8	30'	0,5958745		0,8030776	289,4	30'	0,5958745		0,8030776	289,4
5'	0,5889613		0,8081612	285,9	35'	0,5959913		0,8029909	289,5	25'	0,5959913		0,8029909	289,5
30'	0,5890789		0,8080756	286,0	30'	0,5961081		0,8029042	289,6	30'	0,5961081		0,8029042	289,6
6'	0,5891964	391,7	0,8079899	286,1	36'	0,5962249	389,2	0,8028175	289,7	24'	0,5962249	389,2	0,8028175	289,7
30'	0,5893139	391,6	0,8079042	286,2	30'	0,5963417	389,1	0,8027308	289,8	30'	0,5963417	389,1	0,8027308	289,8
7'	0,5894314	391,5	0,8078185	286,3	37'	0,5964584	389,0	0,8026440	289,9	23'	0,5964584	389,0	0,8026440	289,9
30'	0,5895489		0,8077328	286,4	30'	0,5965751		0,8025573	290,0	30'	0,5965751		0,8025573	290,0
8'	0,5896663		0,8076470	286,5	38'	0,5966918		0,8024705	290,1	22'	0,5966918		0,8024705	290,1
30'	0,5897837		0,8075612	286,6	30'	0,5968085		0,8023837	290,2	30'	0,5968085		0,8023837	290,2
9'	0,5899012	391,4	0,8074754	286,7	39'	0,5969252	388,9	0,8022969	290,3	21'	0,5969252	388,9	0,8022969	290,3
30'	0,5900187	391,3	0,8073896	286,8	30'	0,5970419	388,8	0,8022101	290,4	30'	0,5970419	388,8	0,8022101	290,4
10'	0,5901361		0,8073038	286,9	40'	0,5971586		0,8021232	290,5	20'	0,5971586		0,8021232	290,5
30'	0,5902535		0,8072180	287,0	30'	0,5972753		0,8020363	290,6	30'	0,5972753		0,8020363	290,6
11'	0,5903709	391,2	0,8071321	287,1	41'	0,5973919	388,7	0,8019494	290,7	19'	0,5973919	388,7	0,8019494	290,7
30'	0,5904883	391,1	0,8070462	287,2	30'	0,5975085	388,6	0,8018625	290,8	30'	0,5975085	388,6	0,8018625	290,8
12'	0,5906057	391,0	0,8069603	287,3	42'	0,5976251		0,8017756	290,9	18'	0,5976251		0,8017756	290,9
30'	0,5907231		0,8068744	287,4	30'	0,5977417		0,8016887	291,0	30'	0,5977417		0,8016887	291,0
13'	0,5908404		0,8067885	287,5	43'	0,5978583		0,8016017	291,1	17'	0,5978583		0,8016017	291,1
30'	0,5909577	390,9	0,8067026	287,6	30'	0,5979749	388,5	0,8015148	291,2	30'	0,5979749	388,5	0,8015148	291,2
14'	0,5910750	390,8	0,8066165	287,7	44'	0,5980915	388,4	0,8014278	291,3	16'	0,5980915	388,4	0,8014278	291,3
30'	0,5911923		0,8065306	287,8	30'	0,5982081		0,8013408	291,4	30'	0,5982081		0,8013408	291,4
15'	0,5913096		0,8064446	287,9	45'	0,5983246		0,8012538	291,5	15'	0,5983246		0,8012538	291,5
30'	0,5914269	390,9	0,8063586	288,0	30'	0,5984412	388,3	0,8011668	291,6	14'	0,5984412	388,3	0,8011668	291,6
16'	0,5915442	390,8	0,8062726	288,1	46'	0,5985577		0,8010797	291,7	13'	0,5985577		0,8010797	291,7
30'	0,5916615		0,8061866	288,2	30'	0,5986742		0,8009926	291,8	30'	0,5986742		0,8009926	291,8
17'	0,5917787		0,8061005	288,3	47'	0,5987906		0,8009056	291,9	12'	0,5987906		0,8009056	291,9
30'	0,5918959	390,7	0,8060144	288,4	30'	0,5989071	388,2	0,8008185	292,0	30'	0,5989071	388,2	0,8008185	292,0
18'	0,5920132	390,6	0,8059283	288,5	48'	0,5990236		0,8007314	292,1	11'	0,5990236		0,8007314	292,1
30'	0,5921304	390,5	0,8058422	288,6	30'	0,5991401	388,1	0,8006443	292,2	30'	0,5991401	388,1	0,8006443	292,2
19'	0,5922476		0,8057560	288,7	49'	0,5992565	388,0	0,8005571	292,3	10'	0,5992565	388,0	0,8005571	292,3
30'	0,5923648		0,8056699	288,8	30'	0,5993729		0,8004700	292,4	30'	0,5993729		0,8004700	292,4
20'	0,5924819		0,8055837	288,9	50'	0,5994893		0,8003827	292,5	9'	0,5994893		0,8003827	292,5
30'	0,5925991	390,4	0,8054975	289,0	30'	0,5996057	387,9	0,8002955	292,6	30'	0,5996057	387,9	0,8002955	292,6
21'	0,5927163	390,3	0,8054113	289,1	51'	0,5997221		0,8002083	292,7	8'	0,5997221		0,8002083	292,7
30'	0,5928334		0,8053251	289,2	30'	0,5998385		0,8001211	292,8	30'	0,5998385		0,8001211	292,8
22'	0,5929505		0,8052389	289,3	52'	0,5999549		0,8000338	292,9	7'	0,5999549		0,8000338	292,9
30'	0,5930676	390,2	0,8051527	289,4	30'	0,6000713	387,7	0,7999466	293,0	30'	0,6000713	387,7	0,7999466	293,0
23'	0,5931847		0,8050664	289,5	53'	0,6001876		0,7998593	293,1	6'	0,6001876		0,7998593	293,1
30'	0,5933018		0,8049801	289,6	30'	0,6003039		0,7997720	293,2	30'	0,6003039		0,7997720	293,2
24'	0,5934189	390,1	0,8048938	289,7	54'	0,6004202		0,7996847	293,3	5'	0,6004202		0,7996847	293,3
30'	0,5935360	390,0	0,8048075	289,8	30'	0,6005365	387,6	0,7995973	293,4	30'	0,6005365	387,6	0,7995973	293,4
25'	0,5936530		0,8047211	289,9	55'	0,6006528		0,7995100	293,5	4'	0,6006528		0,7995100	293,5
30'	0,5937701	389,9	0,8046348	290,0	30'	0,6007691	387,5	0,7994226	293,6	30'	0,6007691	387,5	0,7994226	293,6
26'	0,5938871	389,8	0,8045484	290,1	56'	0,6008854		0,7993353	293,7	30'	0,6008854		0,7993353	293,7
30'	0,5940041		0,8044620	290,2	30'	0,6010017		0,7992478	293,8	30'	0,6010017		0,7992478	293,8
27'	0,5941211		0,8043756	290,3	57'	0,6011179		0,7991604	293,9	29'	0,6011179		0,7991604	293,9
30'	0,5942381	389,7	0,8042892	290,4	30'	0,6012341	387,4	0,7990730	294,0	30'	0,6012341	387,4	0,7990730	294,0
28'	0,5943550		0,8042028	290,5	58'	0,6013503		0,7989855	294,1	28'	0,6013503		0,7989855	294,1
30'	0,5944720		0,8041164	290,6	30'	0,6014665	387,3	0,7988980	294,2	30'	0,6014665	387,3	0,7988980	294,2
29'	0,5945889		0,8040299	290,7	59'	0,6015827		0,7988105	294,3	27'	0,6015827		0,7988105	294,3
30'	0,5947059		0,8039434	290,8	30'	0,6016989		0,7987230	294,4	30'	0,6016989		0,7987230	294,4
30'	0,5948228		0,8038569	290,9	60'	0,6018150		0,7986355	294,5	26'	0,6018150		0,7986355	294,5
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.

53 deg.

31 deg.

	sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'
0'	0,6018150	387,2	0,7986355	271,8	60'	30'	0,6087614	384,7	0,7933533	275,2
30'	0,6019312	387,1	0,7985480	271,9	30'	30'	0,6088768	384,6	0,7932648	275,3
1'	0,6020473	387,0	0,7984604		50'	31'	0,6089922	384,5	0,7931762	275,4
30'	0,6021634		0,7983728		30'	30'	0,6091076	384,4	0,7930876	275,5
2'	0,6022795		0,7982852		50'	32'	0,6092229	384,3	0,7929990	275,6
30'	0,6023956		0,7981976	272,1	30'	30'	0,6093382		0,7929104	275,7
30'	0,6025117		0,7981100	272,0	50'	33'	0,6094535		0,7928218	275,8
30'	0,6026278	386,9	0,7980224		30'	30'	0,6095688		0,7927332	275,9
40'	0,6027439	386,8	0,7979347	272,3	50'	34'	0,6096841		0,7926445	276,0
30'	0,6028599		0,7978470		30'	30'	0,6097994		0,7925558	276,1
50'	0,6029760	386,7	0,7977593		50'	35'	0,6099147	384,2	0,7924671	276,2
30'	0,6030920		0,7976716	272,4	30'	30'	0,6100300	384,1	0,7923784	276,3
60'	0,6032080		0,7975839	272,5	50'	36'	0,6101452	384,0	0,7922896	276,4
30'	0,6033240	386,6	0,7974962	272,6	30'	30'	0,6102604		0,7922009	276,5
70'	0,6034400	386,5	0,7974084	272,7	50'	37'	0,6103756		0,7921121	276,6
30'	0,6035560		0,7973206		30'	30'	0,6104908	383,9	0,7920233	276,7
80'	0,6036719		0,7972328	272,7	50'	38'	0,6106060	383,8	0,7919345	276,8
30'	0,6037879	386,4	0,7971450		30'	30'	0,6107212		0,7918457	276,9
90'	0,6039038	386,3	0,7970572	272,8	50'	39'	0,6108363		0,7917569	277,0
30'	0,6040197		0,7969694	272,9	30'	30'	0,6109515		0,7916681	277,1
100'	0,6041355		0,7968815	273,0	50'	40'	0,6110666	383,7	0,7915792	277,2
30'	0,6042515		0,7967936		30'	30'	0,6111818		0,7914903	277,3
110'	0,6043674	386,2	0,7967057	273,1	40'	41'	0,6112969		0,7914014	277,4
30'	0,6044833		0,7966178	273,2	30'	30'	0,6114119		0,7913125	277,5
120'	0,6045991		0,7965299	273,3	40'	42'	0,6115270		0,7912235	277,6
30'	0,6047150	386,1	0,7964420		30'	30'	0,6116421	383,6	0,7911345	277,7
130'	0,6048308	386,0	0,7963540	273,3	40'	43'	0,6117572	383,5	0,7910455	277,8
30'	0,6049465		0,7962660		30'	30'	0,6118723	383,4	0,7909565	277,9
140'	0,6050624		0,7961780	273,4	40'	44'	0,6119873	383,3	0,7908675	278,0
30'	0,6051782	385,9	0,7960900		30'	30'	0,6121023		0,7907785	278,1
150'	0,6052940	385,8	0,7960020	273,5	40'	45'	0,6122173		0,7906895	278,2
30'	0,6054098		0,7959140	273,6	30'	30'	0,6123323		0,7906005	278,3
160'	0,6055255		0,7958259	273,7	40'	46'	0,6124473	383,2	0,7905115	278,4
30'	0,6056413		0,7957378		30'	30'	0,6125623		0,7904224	278,5
170'	0,6057570	385,7	0,7956497	273,8	40'	47'	0,6126772		0,7903333	278,6
30'	0,6058727		0,7955616		30'	30'	0,6127922	383,1	0,7902442	278,7
180'	0,6059884		0,7954735	273,9	40'	48'	0,6129071	383,0	0,7901550	278,8
30'	0,6061041	385,6	0,7953854	274,0	30'	30'	0,6130220	382,9	0,7900659	278,9
190'	0,6062198	385,5	0,7952972	274,1	40'	49'	0,6131369	382,8	0,7899767	279,0
30'	0,6063355	385,4	0,7952090		30'	30'	0,6132518		0,7898875	279,1
200'	0,6064511	385,3	0,7951208	274,2	40'	50'	0,6133666		0,7897983	279,2
30'	0,6065668		0,7950326		30'	30'	0,6134815		0,7897091	279,3
210'	0,6066824		0,7949443	274,3	40'	51'	0,6135964		0,7896199	279,4
30'	0,6067980		0,7948560		30'	30'	0,6137112	382,7	0,7895306	279,5
220'	0,6069136		0,7947678	274,4	40'	52'	0,6138260		0,7894413	279,6
30'	0,6070292		0,7946795		30'	30'	0,6139408		0,7893520	279,7
230'	0,6071447	385,2	0,7945912	274,5	40'	53'	0,6140556		0,7892627	279,8
30'	0,6072603		0,7945029	274,6	30'	30'	0,6141704	382,6	0,7891734	279,9
240'	0,6073758		0,7944146	274,7	40'	54'	0,6142852	382,5	0,7890841	280,0
30'	0,6074914	385,1	0,7943263	274,8	30'	30'	0,6144000		0,7889948	280,1
250'	0,6076069	385,0	0,7942379	274,9	40'	55'	0,6145147		0,7889054	280,2
30'	0,6077224		0,7941495		30'	30'	0,6146295	382,4	0,7888160	280,3
260'	0,6078379		0,7940611	275,0	40'	56'	0,6147442	382,3	0,7887266	280,4
30'	0,6079534	384,9	0,7939727	275,1	30'	30'	0,6148589		0,7886372	280,5
270'	0,6080689	384,8	0,7938843	275,2	40'	57'	0,6149736	382,2	0,7885477	280,6
30'	0,6081844		0,7937959		30'	30'	0,6150883		0,7884583	280,7
280'	0,6082998	384,7	0,7937074	275,3	40'	58'	0,6152029		0,7883688	280,8
30'	0,6084152		0,7936189	275,4	30'	30'	0,6153176		0,7882793	280,9
290'	0,6085306		0,7935304	275,5	40'	59'	0,6154322		0,7881898	281,0
30'	0,6086450		0,7934419		30'	30'	0,6155469	382,1	0,7881002	281,1
300'	0,6087614		0,7933533		40'	60'	0,6156615		0,7880107	281,2
	co-sin.	10'	sin.	10'			co-sin.	10'	sin.	10'
		diff.		diff.				diff.		diff.

38 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	J. T. 10''
0'	0,6156615	382,0	0,7880107	298,5	60'	0,6225146	379,3	0,7826082	301,8	30'
3'	0,6157761	381,9	0,7879212	298,6	3'	0,6226234		0,7825177	301,9	3'
1'	0,6158907	381,8	0,7878316	298,7	5'	0,6227423		0,7824271	302,0	29'
3'	0,6160053		0,7877420		3'	0,6228561		0,7823365	302,1	28'
2'	0,6161198		0,7876524		58'	0,6229698	379,2	0,7822459	302,2	28'
3'	0,6162343		0,7875628		3'	0,6230836		0,7821553	302,3	3'
3'	0,6163489	381,7	0,7874732	298,8	57'	0,6231974		0,7820646	302,4	27'
3'	0,6164635		0,7873836	298,9	3'	0,6233111	379,1	0,7819740	302,5	3'
4'	0,6165780		0,7872939	299,0	55'	0,6234248	379,0	0,7818833	302,6	26'
3'	0,6166925		0,7872042	299,1	3'	0,6235385		0,7817926	302,7	3'
5'	0,6168069		0,7871145	299,2	55'	0,6236522		0,7817019	302,8	25'
3'	0,6169214	381,6	0,7870248	299,3	3'	0,6237659	378,9	0,7816112	302,9	3'
6'	0,6170359	381,5	0,7869350	299,4	54'	0,6238796	378,8	0,7815205	303,0	24'
3'	0,6171504	381,4	0,7868452	299,5	3'	0,6239933		0,7814298	303,1	3'
7'	0,6172648	381,3	0,7867555	299,6	53'	0,6241069		0,7813390	303,2	23'
3'	0,6173792		0,7866657	299,7	3'	0,6242206		0,7812482	303,3	3'
8'	0,6174936		0,7865759	299,8	52'	0,6243342	378,7	0,7811574	303,4	22'
3'	0,6176080		0,7864861	299,9	3'	0,6244478	378,6	0,7810666	303,5	3'
9'	0,6177224	381,2	0,7863962	299,0	51'	0,6245614	378,5	0,7809757	303,6	21'
3'	0,6178368		0,7863064	299,1	3'	0,6246750		0,7808849	303,7	3'
10'	0,6179511		0,7862165	299,2	50'	0,6247885		0,7807940	303,8	20'
3'	0,6180655	381,1	0,7861266	299,3	3'	0,6249021	378,4	0,7807031	303,9	3'
11'	0,6181799	381,0	0,7860367	299,4	49'	0,6250156	378,3	0,7806122	304,0	19'
3'	0,6182941		0,7859468	299,5	3'	0,6251292		0,7805213	304,1	3'
12'	0,6184084		0,7858569	299,6	48'	0,6252427		0,7804304	304,2	18'
3'	0,6185227	380,9	0,7857670	299,7	3'	0,6253562		0,7803395	304,3	3'
13'	0,6186370	380,8	0,7856770	299,8	47'	0,6254696	378,2	0,7802485	304,4	17'
3'	0,6187513		0,7855870	299,9	3'	0,6255831	378,1	0,7801575	304,5	16'
14'	0,6188655		0,7854970	300,0	46'	0,6256966		0,7800665	304,6	3'
3'	0,6189797		0,7854070	300,1	3'	0,6258101	378,0	0,7799755	304,7	3'
15'	0,6190939	380,7	0,7853169	300,2	45'	0,6259235		0,7798845	304,8	15'
3'	0,6192082	380,6	0,7852268	300,3	3'	0,6260369	378,0	0,7797935	304,9	3'
10'	0,6193224	380,5	0,7851368	300,4	44'	0,6261503		0,7797024	305,0	14'
3'	0,6194366		0,7850467	300,5	3'	0,6262637	377,9	0,7796113	305,1	3'
17'	0,6195507		0,7849565	300,6	43'	0,6263771	377,8	0,7795202	305,2	13'
3'	0,6196648		0,7848665	300,7	3'	0,6264905		0,7794291	305,3	3'
18'	0,6197790		0,7847764	300,8	42'	0,6266038		0,7793380	305,4	12'
3'	0,6198932	380,4	0,7846863	300,9	3'	0,6267172	377,7	0,7792469	305,5	3'
19'	0,6200073	380,3	0,7845961	301,0	41'	0,6268305		0,7791557	305,6	11'
3'	0,6201214		0,7845059	301,1	3'	0,6269438		0,7790645	305,7	3'
20'	0,6202355	380,2	0,7844157	301,2	40'	0,6270571		0,7789733	305,8	10'
3'	0,6203496		0,7843255	301,3	3'	0,6271704	377,6	0,7788821	305,9	3'
21'	0,6204636		0,7842352	301,4	39'	0,6272837	377,5	0,7787908	306,0	9'
3'	0,6205777		0,7841450	301,5	3'	0,6273970	377,4	0,7786995	306,1	3'
22'	0,6206917		0,7840547	301,6	52'	0,6275102	377,3	0,7786083	306,2	8'
3'	0,6208058	380,1	0,7839644	301,7	3'	0,6276234		0,7785170	306,3	3'
23'	0,6209198	380,0	0,7838741	301,8	51'	0,6277366		0,7784257	306,4	7'
3'	0,6210338	379,9	0,7837838	301,9	3'	0,6278499		0,7783344	306,5	3'
24'	0,6211478	379,8	0,7836935	302,0	54'	0,6279631		0,7782431	306,6	6'
3'	0,6212618		0,7836032	302,1	3'	0,6280763		0,7781518	306,7	3'
25'	0,6213757		0,7835128	302,2	53'	0,6281894	377,2	0,7780604	306,8	5'
3'	0,6214896		0,7834224	302,3	3'	0,6283026		0,7779691	306,9	3'
26'	0,6216036	379,7	0,7833320	302,4	34'	0,6284157		0,7778777	307,0	4'
3'	0,6217175		0,7832416	302,5	3'	0,6285289	377,1	0,7777863	307,1	3'
27'	0,6218314		0,7831511	302,6	57'	0,6286420	377,0	0,7776949	307,2	3'
28'	0,6219453	379,6	0,7830607	302,7	3'	0,6287551		0,7776035	307,3	3'
3'	0,6220592	379,5	0,7829702	302,8	58'	0,6288682		0,7775120	307,4	2'
3'	0,6221731		0,7828797	302,9	3'	0,6289813		0,7774205	307,5	3'
29'	0,6222870		0,7827892	303,0	31'	0,6290943		0,7773290	307,6	1'
3'	0,6224008	379,4	0,7826987	303,1	3'	0,6292074		0,7772375	307,7	3'
30'	0,6225146		0,7826082	303,2	60'	0,6293204		0,7771460	307,8	0'
	co-sin.	10'' diff:	sin.	10'' diff:		co-sin.	10'' diff:	sin.	10'' diff:	

51 deg.



39 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''		
0'	0,6293204	376,7	0,7771460	305,2	60'	30'	0,6360782	374,0	0,7716246	308,5	30'	30'
30'	0,6294334		0,7770545		30'	30'	0,6361904		0,7715321		30'	30'
1'	0,6295464		0,7769629	305,3	57'	31'	0,6363026		0,7714395	2'	30'	2'
30'	0,6296594	376,6	0,7768713		30'	30'	0,6364148	373,9	0,7713470	308,6	30'	30'
2'	0,6297724	376,5	0,7767777		53'	32'	0,6365270	373,8	0,7712544	308,7	25'	30'
30'	0,6298854		0,7766881	305,4	30'	30'	0,6366392		0,7711618		30'	30'
3'	0,6299983		0,7765965	305,5	57'	33'	0,6367513		0,7710692	308,8	27'	30'
30'	0,6301113	376,4	0,7765049		30'	30'	0,6368634		0,7709766		30'	30'
4'	0,6302242	376,3	0,7764132	305,7	56'	34'	0,6369756	373,7	0,7708839	308,9	26'	30'
30'	0,6303371		0,7763215		30'	30'	0,6370877		0,7707913		30'	30'
5'	0,6304500		0,7762298	305,8	55'	35'	0,6371998		0,7706986	309,0	25'	30'
30'	0,6305629	376,2	0,7761381		54'	36'	0,6373119	373,6	0,7706059	309,1	24'	30'
6'	0,6306758		0,7760464		30'	30'	0,6374240		0,7705132		30'	30'
30'	0,6307887		0,7759547	305,9	53'	36'	0,6375361	373,5	0,7704205	309,2	23'	30'
7'	0,6309015		0,7758629		30'	30'	0,6376481		0,7703278		30'	30'
30'	0,6310144	376,1	0,7757712		52'	38'	0,6377601		0,7702351		30'	30'
8'	0,6311272	376,0	0,7756794	306,0	30'	30'	0,6378721		0,7701423	309,3	22'	30'
30'	0,6312400		0,7755876		30'	30'	0,6379841		0,7700495		30'	30'
9'	0,6313528		0,7754958	306,1	51'	30'	0,6380961		0,7699567	309,4	21'	30'
30'	0,6314656	375,9	0,7754040		30'	30'	0,6382081		0,7698639		30'	30'
10'	0,6315784	375,8	0,7753121	306,3	50'	40'	0,6383201	373,2	0,7697710	309,5	20'	30'
30'	0,6316912		0,7752202		30'	30'	0,6384321		0,7696782		30'	30'
11'	0,6318039		0,7751283	306,4	49'	41'	0,6385440	373,1	0,7695853	309,6	19'	30'
30'	0,6319166	375,7	0,7750364		30'	30'	0,6386559		0,7694924		30'	30'
12'	0,6320293		0,7749445	306,5	48'	42'	0,6387678	373,0	0,7693995	309,7	18'	30'
30'	0,6321420	375,6	0,7748526		30'	30'	0,6388797		0,7693066		30'	30'
13'	0,6322547	375,5	0,7747606	306,6	47'	43'	0,6389916	372,9	0,7692137	309,8	17'	30'
30'	0,6323674		0,7746687		30'	30'	0,6391035		0,7691208		30'	30'
14'	0,6324800		0,7745767	306,7	46'	44'	0,6392153	372,8	0,7690278	310,0	16'	30'
30'	0,6325927	375,4	0,7744847		30'	30'	0,6393271		0,7689348		30'	30'
15'	0,6327053	375,3	0,7743927	306,8	45'	45'	0,6394390	372,7	0,7688418	310,1	15'	30'
30'	0,6328180		0,7743007		30'	30'	0,6395508		0,7687488		30'	30'
16'	0,6329306		0,7742085	306,9	44'	46'	0,6396626		0,7686558	310,2	14'	30'
30'	0,6330431	375,2	0,7741165		30'	30'	0,6397744	372,6	0,7685628	310,3	13'	30'
17'	0,6331557		0,7740244		43'	47'	0,6398862		0,7684697		30'	30'
30'	0,6332683		0,7739323	307,1	30'	30'	0,6399980	372,5	0,7683766	310,4	12'	30'
18'	0,6333809		0,7738402		42'	48'	0,6401097		0,7682835		30'	30'
30'	0,6334934	375,1	0,7737480		30'	30'	0,6402215		0,7681904		30'	30'
19'	0,6336059	375,0	0,7736559	307,2	41'	49'	0,6403332	372,4	0,7680973	310,5	11'	30'
30'	0,6337185		0,7735638		30'	30'	0,6404449		0,7680042		30'	30'
20'	0,6338310		0,7734716	307,3	40'	50'	0,6405566	372,3	0,7679110	310,6	10'	30'
30'	0,6339435	374,9	0,7733794		30'	30'	0,6406683		0,7678178		30'	30'
21'	0,6340559	374,8	0,7732872	307,4	39'	51'	0,6407799	372,2	0,7677246	310,7	9'	30'
30'	0,6341684		0,7731950		30'	30'	0,6408916		0,7676314		30'	30'
22'	0,6342808		0,7731027	307,5	38'	52'	0,6410032	372,1	0,7675382	310,8	8'	30'
30'	0,6343933	374,7	0,7730105		30'	30'	0,6411148		0,7674450		30'	30'
23'	0,6345057		0,7729182	307,6	37'	53'	0,6412264	372,0	0,7673517	310,9	7'	30'
30'	0,6346181		0,7728259		30'	30'	0,6413380		0,7672584		30'	30'
24'	0,6347305		0,7727336	307,7	36'	54'	0,6414496	371,9	0,7671651	311,0	6'	30'
30'	0,6348429	374,6	0,7726413		30'	30'	0,6415612		0,7670718		30'	30'
25'	0,6349553		0,7725489	307,8	35'	55'	0,6416728	371,8	0,7669785	311,1	5'	30'
30'	0,6350677	374,5	0,7724566		30'	30'	0,6417843		0,7668852		30'	30'
26'	0,6351800		0,7723642	307,9	34'	56'	0,6418958		0,7667919	311,2	4'	30'
30'	0,6352923	374,3	0,7722718		30'	30'	0,6420074	371,7	0,7666985	311,3	3'	30'
27'	0,6354046		0,7721794		308,1	33'	0,6421189		0,7666051		30'	30'
30'	0,6355169		0,7720870	308,2	30'	30'	0,6422304		0,7665117		30'	30'
28'	0,6356292	374,2	0,7719945		30'	55'	0,6423418	371,5	0,7664183	311,4	2'	30'
30'	0,6357415		0,7719020		30'	30'	0,6424533		0,7663249		30'	30'
29'	0,6358537		0,7718096	308,3	31'	56'	0,6425647		0,7662314	311,5	1'	30'
30'	0,6359660	374,1	0,7717171		308,4	30'	0,6426762	371,4	0,7661379	311,6	0'	30'
30'	0,6360782		0,7716246		30'	60'	0,6427876		0,7660444		30'	30'
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.		

50 deg.

40 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,6427876		0,7660444		30'	0,6494480	363,7	0,7604000		30'
36'	0,6428990	371,3	0,7659509	311,7	36'	0,6495586	368,6	0,7603115	315,0	36'
1'	0,6430104		0,7658574		59'	0,6496692	368,5	0,7602170	29'	36'
36'	0,6431218		0,7657639	311,8	36'	0,6497798		0,7601225	315,1	36'
2'	0,6432332	371,2	0,7656703	58'	32'	0,6498903		0,7600280	315,2	28'
36'	0,6433446		0,7655768		36'	0,6500009	368,4	0,7599335		36'
3'	0,6434559	371,1	0,7654832	311,9	57'	0,6501114	368,3	0,7598389	27'	36'
36'	0,6435672	371,0	0,7653896	312,0	36'	0,6502219		0,7597444	315,3	36'
4'	0,6436785		0,7652960	312,1	56'	0,6503324	368,2	0,7596498	315,3	26'
36'	0,6437898	370,9	0,7652024	312,2	36'	0,6504429		0,7595552	315,4	36'
5'	0,6439011		0,7651087		55'	0,6505533	368,1	0,7594606	315,5	25'
36'	0,6440124	370,8	0,7650150	312,3	36'	0,6506638	368,0	0,7593660	315,5	36'
6'	0,6441236		0,7649214	312,4	54'	0,6507742		0,7592713	24'	36'
36'	0,6442348	370,7	0,7648277	312,5	36'	0,6508847		0,7591767	315,6	23'
7'	0,6443461		0,7647340		53'	0,6509951		0,7590820	315,7	36'
36'	0,6444573		0,7646403		36'	0,6511054		0,7589873		36'
8'	0,6445685		0,7645465	52'	33'	0,6512158		0,7588926	22'	36'
36'	0,6446797	370,6	0,7644528	312,6	36'	0,6513262	367,8	0,7587978	315,8	36'
9'	0,6447909	370,5	0,7643590	312,7	51'	0,6514366	367,7	0,7587031	21'	36'
36'	0,6449021		0,7642652		36'	0,6515469		0,7586084	315,9	36'
10'	0,6450132		0,7641714	312,8	50'	0,6516572		0,7585136	20'	36'
36'	0,6451244	370,4	0,7640776	312,9	36'	0,6517675		0,7584188	316,0	36'
11'	0,6452355	370,3	0,7639837	49'	41'	0,6518778		0,7583240	316,1	19'
36'	0,6453466		0,7638899	312,9	36'	0,6519881	367,6	0,7582292	316,2	36'
12'	0,6454577	370,2	0,7637960	313,0	48'	0,6520984	367,5	0,7581343	18'	36'
36'	0,6455688		0,7637021		36'	0,6522087		0,7580395		36'
13'	0,6456798		0,7636082	47'	43'	0,6523189		0,7579446	17'	36'
36'	0,6457908		0,7635143	313,1	36'	0,6524292	367,4	0,7578497	316,3	36'
14'	0,6459019		0,7634204	313,2	46'	0,6525394	367,3	0,7577548	16'	36'
36'	0,6460130	370,1	0,7633265		36'	0,6526496		0,7576599	316,4	36'
15'	0,6461240	370,0	0,7632325	313,3	45'	0,6527598	367,2	0,7575650	15'	36'
36'	0,6462350	369,9	0,7631385	313,4	36'	0,6528700		0,7574701	316,5	36'
36'	0,6463460	369,8	0,7630445	313,5	44'	0,6529801		0,7573751	14'	36'
36'	0,6464570		0,7629505		36'	0,6530903	367,1	0,7572801	316,6	36'
17'	0,6465679		0,7628564	43'	47'	0,6532004	367,0	0,7571851	13'	36'
36'	0,6466788		0,7627624		36'	0,6533105		0,7570900		36'
18'	0,6467898	369,7	0,7626683	313,6	42'	0,6534206		0,7569950	12'	36'
36'	0,6469007		0,7625742	313,7	36'	0,6535307	366,9	0,7569000	316,9	36'
19'	0,6470116		0,7624801		41'	0,6536408	366,8	0,7568049	11'	36'
36'	0,6471225	369,6	0,7623860		36'	0,6537509		0,7567098	317,0	36'
20'	0,6472334	369,5	0,7622919	313,8	40'	0,6538609		0,7566147	10'	36'
36'	0,6473443	369,4	0,7621978	313,9	36'	0,6539709	366,7	0,7565196	317,1	36'
21'	0,6474551	369,3	0,7621036	314,0	51'	0,6540810	366,6	0,7564245	9'	36'
36'	0,6475659		0,7620094		36'	0,6541910	366,5	0,7563293	317,2	36'
22'	0,6476767		0,7619152	33'	52'	0,6543010		0,7562342	8'	36'
36'	0,6477875		0,7618210		36'	0,6544110		0,7561390		36'
23'	0,6478983	369,2	0,7617268	314,1	37'	0,6545209	366,4	0,7560439	317,3	36'
36'	0,6480092	369,1	0,7616326	314,2	36'	0,6546309		0,7559487	7'	36'
24'	0,6481199		0,7615383		54'	0,6547408	366,3	0,7558535	317,4	36'
36'	0,6482307	369,0	0,7614440	314,3	36'	0,6548508		0,7557583	317,5	36'
25'	0,6483414		0,7613497		55'	0,6549607		0,7556630		36'
36'	0,6484521	369,0	0,7612554	314,4	36'	0,6550705	366,2	0,7555677	317,7	36'
26'	0,6485628		0,7611611	314,5	34'	0,6551804		0,7554724	4'	36'
36'	0,6486735	368,9	0,7610668		36'	0,6552903		0,7553771		36'
27'	0,6487842	368,8	0,7609724	33'	57'	0,6554002		0,7552818	317,8	36'
36'	0,6488949		0,7608780		36'	0,6555100	366,1	0,7551865		36'
28'	0,6490056		0,7607837		58'	0,6556198	366,0	0,7550911	2'	36'
36'	0,6491162	368,7	0,7606893	314,7	36'	0,6557297		0,7549958	318,0	36'
29'	0,6492268		0,7605949		59'	0,6558395		0,7549004		36'
36'	0,6493374		0,7605005	314,9	36'	0,6559493	365,9	0,7548050	318,1	36'
30'	0,6494480		0,7604060	30'	60'	0,6560590		0,7547095		36'
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.	

49 deg.

41 deg

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0,6560590	365,8	0,7547096	318,2	60'	30'	0,6626200	363,0	0,7489557	321,3
30'	0,6561688		0,7546142		30'	30'	0,6627290		0,7488593	321,3
1'	0,6562785		0,7545187		59'	31'	0,6628379		0,7487629	321,3
30'	0,6563882		0,7544232		30'	30'	0,6629468	362,9	0,7486665	321,4
2'	0,6564980	365,7	0,7543278	318,3	58'	32'	0,6630557	362,8	0,7485701	321,5
30'	0,6566077	365,6	0,7542323	318,4	30'	30'	0,6631646		0,7484737	321,6
3'	0,6567174	365,5	0,7541368	318,5	57'	33'	0,6632734		0,7483772	321,7
30'	0,6568271		0,7540413		30'	30'	0,6633822		0,7482807	321,7
4'	0,6569367		0,7539457		56'	34'	0,6634910	362,7	0,7481842	321,8
30'	0,6570464	365,4	0,7538502	318,6	30'	30'	0,6635999	362,6	0,7480877	321,8
5'	0,6571560	365,3	0,7537546	318,7	55'	35'	0,6637087	362,5	0,7479912	321,8
30'	0,6572656		0,7536590		30'	30'	0,6638175		0,7478947	321,9
6'	0,6573752		0,7535634		54'	36'	0,6639262		0,7477981	322,0
30'	0,6574848		0,7534678		30'	30'	0,6640350		0,7477015	322,0
7'	0,6575944	365,2	0,7533721	318,8	53'	37'	0,6641437	362,4	0,7476049	322,1
30'	0,6577040		0,7532765		30'	30'	0,6642525		0,7475083	322,1
8'	0,6578135		0,7531808		52'	38'	0,6643612		0,7474117	322,2
30'	0,6579231	365,1	0,7530851	319,0	30'	30'	0,6644699		0,7473151	322,2
9'	0,6580326	365,0	0,7529894	319,1	51'	39'	0,6645785		0,7472184	322,3
30'	0,6581421		0,7528937		30'	30'	0,6646872		0,7471217	322,3
10'	0,6582516		0,7527980		50'	40'	0,6647959	362,2	0,7470251	322,4
30'	0,6583611	364,9	0,7527023	319,2	30'	30'	0,6649045	362,1	0,7469284	322,4
11'	0,6584706	364,8	0,7526065	319,3	49'	41'	0,6650131	362,0	0,7468317	322,5
30'	0,6585801		0,7525107		30'	30'	0,6651218	361,9	0,7467350	322,5
12'	0,6586895	364,7	0,7524149	319,4	48'	42'	0,6652304	361,8	0,7466382	322,6
30'	0,6587989		0,7523191		30'	30'	0,6653389		0,7465414	322,6
13'	0,6589083		0,7522233		47'	43'	0,6654475		0,7464446	322,7
30'	0,6590177	364,6	0,7521275	319,5	30'	30'	0,6655560		0,7463478	322,7
14'	0,6591271	364,5	0,7520316	319,7	46'	44'	0,6656646		0,7462510	322,8
30'	0,6592365		0,7519357		30'	30'	0,6657732		0,7461542	322,8
15'	0,6593453		0,7518398		45'	45'	0,6658817	361,7	0,7460574	322,9
30'	0,6594542	364,4	0,7517439	319,8	30'	30'	0,6659902	361,6	0,7459606	322,9
16'	0,6595634	364,3	0,7516480	319,9	44'	46'	0,6660987	361,5	0,7458637	323,0
30'	0,6596728		0,7515521		30'	30'	0,6662072		0,7457668	323,1
17'	0,6597821		0,7514561		43'	47'	0,6663156		0,7456699	323,2
30'	0,6598914		0,7513601		30'	30'	0,6664241	361,4	0,7455729	323,2
18'	0,6600007	364,2	0,7512641	320,1	42'	48'	0,6665325	361,3	0,7454760	323,3
30'	0,6601100	364,1	0,7511681	320,2	30'	30'	0,6666409		0,7453791	323,3
19'	0,6602202	364,0	0,7510721	320,3	41'	49'	0,6667493		0,7452821	323,4
30'	0,6603294		0,7509761		30'	30'	0,6668577		0,7451851	323,4
20'	0,6604386		0,7508800		40'	50'	0,6669661		0,7450881	323,5
30'	0,6605478	363,9	0,7507839	320,3	30'	30'	0,6670745	361,2	0,7449911	323,5
21'	0,6606570	363,8	0,7506879	320,4	39'	51'	0,6671828	361,1	0,7448940	323,6
30'	0,6607662		0,7505918		30'	30'	0,6672911	361,0	0,7447970	323,6
22'	0,6608754		0,7504957		38'	52'	0,6673994		0,7447000	323,7
30'	0,6609845		0,7503996		30'	30'	0,6675077		0,7446028	323,7
23'	0,6610936	363,7	0,7503034	320,6	37'	53'	0,6676160		0,7445057	323,8
30'	0,6612028		0,7502073		30'	30'	0,6677243	360,9	0,7444085	323,8
24'	0,6613119	363,6	0,7501111	320,7	36'	54'	0,6678326	360,8	0,7443113	323,9
30'	0,6614210		0,7500149		30'	30'	0,6679408		0,7442144	324,0
25'	0,6615300	363,5	0,7499187	320,8	35'	55'	0,6680490	360,7	0,7441172	324,0
30'	0,6616391		0,7498225		30'	30'	0,6681573	360,6	0,7440201	324,1
26'	0,6617482		0,7497262		34'	56'	0,6682655	360,5	0,7439229	324,1
30'	0,6618572	363,4	0,7496300	320,9	30'	30'	0,6683737		0,7438257	324,2
27'	0,6619662	363,3	0,7495337	321,0	33'	57'	0,6684818		0,7437285	324,2
30'	0,6620752		0,7494374		30'	30'	0,6685899		0,7436313	324,3
28'	0,6621842		0,7493411		32'	58'	0,6686981		0,7435340	324,3
30'	0,6622932	363,2	0,7492448	321,2	30'	30'	0,6688063		0,7434367	324,4
29'	0,6624022	363,1	0,7491484	321,3	31'	59'	0,6689144	360,4	0,7433394	324,4
30'	0,6625111		0,7490521		30'	30'	0,6690225	360,3	0,7432421	324,5
30'	0,6626200		0,7489557		30'	60'	0,6691306		0,7431448	324,5
	co-sin.	10"	sin.	10"			co-sin.	diff. 10"	sin.	diff. 10"

48 deg.

42 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,6691306		0,7431448		60'	30'	0,6755902	357,3	0,7372773	327,5	30'					
30'	0,6692387	360,2	0,7430475	324,5	30'	30'	0,6755974		0,7371791	327,6	30'					
1'	0,6693468		0,7429501		50'	31'	0,6758046	-	0,7370808	327,7	20'					
30'	0,6694548		0,7428528		30'	30'	0,6759118		0,7369825	327,7	30'					
2'	0,6695628	360,1	0,7427554	324,6	50'	32'	0,6760190	357,2	0,7368842	327,8	20'					
30'	0,6696709	360,0	0,7426580		30'	30'	0,6761262		0,7367859	327,9	30'					
3'	0,6697789		0,7425606		50'	33'	0,6762333		0,7366875	327,9	27'					
30'	0,6698869		0,7424632		30'	30'	0,6763405	357,1	0,7365891	328,0	30'					
4'	0,6699948	359,9	0,7423657	324,8	50'	34'	0,6764476	357,0	0,7364907	328,0	26'					
30'	0,6701028	359,8	0,7422683	324,9	30'	30'	0,6765547		0,7363923	328,1	30'					
5'	0,6702108		0,7421708		50'	35'	0,6766618		0,7362939	328,1	25'					
30'	0,6703187		0,7420733		30'	30'	0,6767689	356,9	0,7361955	328,2	30'					
6'	0,6704265	359,7	0,7419758	325,0	50'	36'	0,6768760	356,8	0,7360971	328,2	24'					
30'	0,6705345		0,7418783		30'	30'	0,6769830		0,7359987	328,3	30'					
7'	0,6706424		0,7417808		50'	37'	0,6770901	356,7	0,7359002	328,3	23'					
30'	0,6707503	359,6	0,7416832	325,1	30'	30'	0,6771971		0,7358017	328,4	30'					
8'	0,6708582		0,7415857		50'	38'	0,6773041		0,7357032	328,5	22'					
30'	0,6709661	359,4	0,7414881	325,3	30'	30'	0,6774111	356,6	0,7356047	328,5	30'					
9'	0,6710739	359,3	0,7413905	325,4	50'	39'	0,6775181	356,5	0,7355061	328,6	21'					
30'	0,6711817		0,7412929		30'	30'	0,6776251		0,7354075	328,7	30'					
10'	0,6712895		0,7411953		50'	40'	0,6777320		0,7353090	328,7	20'					
30'	0,6713973	359,2	0,7410977	325,5	30'	30'	0,6778390	356,4	0,7352104	328,8	30'					
11'	0,6715051		0,7410000		50'	41'	0,6779459	356,3	0,7351118	328,9	19'					
30'	0,6716129		0,7409024		30'	30'	0,6780528		0,7350132	329,0	30'					
12'	0,6717205	359,1	0,7408046	325,7	50'	42'	0,6781597	356,2	0,7349146	329,1	18'					
30'	0,6718284	359,0	0,7407069	325,8	30'	30'	0,6782665		0,7348160	329,2	30'					
13'	0,6719361	358,9	0,7406092	325,9	50'	43'	0,6783734	356,1	0,7347173	329,3	17'					
30'	0,6720438	358,8	0,7405115	326,0	30'	30'	0,6784803	356,0	0,7346186	329,4	30'					
14'	0,6721515		0,7404137		50'	44'	0,6785871		0,7345199	329,5	16'					
30'	0,6722592		0,7403159		30'	30'	0,6786939		0,7344212	329,6	30'					
15'	0,6723668		0,7402181		50'	45'	0,6788007		0,7343225	329,7	15'					
30'	0,6724745	358,7	0,7401203	326,1	30'	30'	0,6789075	355,9	0,7342238	329,8	30'					
16'	0,6725821		0,7400225		50'	46'	0,6790143	355,8	0,7341250	329,9	14'					
30'	0,6726897		0,7399247		30'	30'	0,6791211		0,7340262	330,0	30'					
17'	0,6727973	358,6	0,7398268	326,2	50'	47'	0,6792278		0,7339275	330,1	13'					
30'	0,6729049	358,5	0,7397290	326,3	30'	30'	0,6793346		0,7338287	330,2	30'					
18'	0,6730125		0,7396311		50'	48'	0,6794413	355,7	0,7337299	330,3	12'					
30'	0,6731201		0,7395332		30'	30'	0,6795480		0,7336311	330,4	30'					
19'	0,6732276	358,4	0,7394353	326,4	50'	49'	0,6796547		0,7335322	330,5	11'					
30'	0,6733352	358,3	0,7393374	326,5	30'	30'	0,6797614	355,6	0,7334334	330,6	30'					
20'	0,6734427		0,7392394		50'	50'	0,6798681	355,5	0,7333345	330,7	10'					
30'	0,6735502		0,7391415		30'	30'	0,6799747	355,4	0,7332356	330,8	30'					
21'	0,6736577	358,3	0,7390435	326,6	50'	51'	0,6800813	355,3	0,7331367	330,9	9'					
30'	0,6737652	358,2	0,7389455	326,7	30'	30'	0,6801830		0,7330378	331,0	30'					
22'	0,6738727		0,7388475		50'	52'	0,6802846		0,7329388	331,1	8'					
30'	0,6739802	358,1	0,7387495	326,8	30'	30'	0,6803862		0,7328399	331,2	30'					
23'	0,6740876	358,0	0,7386515	326,9	50'	53'	0,6804878	355,2	0,7327409	331,3	7'					
30'	0,6741950		0,7385535		30'	30'	0,6805894	355,1	0,7326419	331,4	30'					
24'	0,6743024		0,7384554		50'	54'	0,6806909	355,0	0,7325429	331,5	6'					
30'	0,6744098	357,9	0,7383573	327,0	30'	30'	0,6807924		0,7324439	331,6	30'					
25'	0,6745172		0,7382592		50'	55'	0,6808939		0,7323448	331,7	5'					
30'	0,6746246	357,8	0,7381610	327,1	30'	30'	0,6810044	354,9	0,7322457	331,8	30'					
26'	0,6747319		0,7380629		50'	56'	0,6811059	354,8	0,7321467	331,9	4'					
30'	0,6748393	357,7	0,7379648	327,2	30'	57'	0,6812073		0,7320476	332,0	30'					
27'	0,6749466	357,6	0,7378667	327,3	50'	58'	0,6813087		0,7319485	332,1	30'					
30'	0,6750539		0,7377686		30'	59'	0,6814100	354,7	0,7318494	332,2	29'					
28'	0,6751612		0,7376705		50'	60'	0,6815113		0,7317503	332,3	28'					
30'	0,6752685	357,5	0,7375724	327,4	30'	60'	0,6816126		0,7316512	332,4	27'					
29'	0,6753757		0,7374743		50'	60'	0,6817139		0,7315520	332,5	26'					
30'	0,6754830	357,4	0,7373762	327,5	30'	60'	0,6818152	354,6	0,7314529	332,6	25'					
30'	0,6755902		0,7372781		50'	60'	0,6819165		0,7313537	332,7	24'					
co-sin.	10'' diff.		sin.	10'' diff.			co-sin.	10'' diff.		sin.	10'' diff.					

47 deg.



43 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''		
0'	0,6819984	354,5	0,7313537	330,7	60'	30'	0,6883546	351,7	0,7253744	333,8	30'	
36	0,6821048	354,4	0,7312545		36	36	0,6884601	351,6	0,7252743		36	
1'	0,6822111	354,3	0,7311553	330,8	59'	31'	0,6885655	351,5	0,7251741	29'	29'	
36	0,6823174		0,7310561		36	36	0,6886710		0,7250740	333,9	36	
2'	0,6824237		0,7309568	330,9	58'	32'	0,6887765		0,7249738	334,0	28'	
36	0,6825300		0,7308576		36	36	0,6888819	351,4	0,7248736	334,1	36	
3'	0,6826363	354,2	0,7307583	331,0	57'	33'	0,6889873	351,3	0,7247734	334,2	27'	
36	0,6827426		0,7306590	331,1	36	36	0,6890927		0,7246731		36	
4'	0,6828489		0,7305597	331,2	56'	34'	0,6891981		0,7245729	26'	26'	
36	0,6829551	354,1	0,7304604		36	36	0,6893035		0,7244727	334,3	36	
5'	0,6830613	354,0	0,7303610	331,3	55'	35'	0,6894089	351,2	0,7243724	334,3	25'	
36	0,6831676		0,7302616		36	36	0,6895142	351,1	0,7242721		36	
6'	0,6832738		0,7301623	331,4	54'	36'	0,6896195	351,0	0,7241718	24'	24'	
36	0,6833800	353,9	0,7300629	331,5	36	36	0,6897249	350,9	0,7240715	334,4	36	
7'	0,6834861	353,8	0,7299635		53'	37'	0,6898302	350,8	0,7239712	334,5	23'	
36	0,6835923		0,7298641		36	36	0,6899355		0,7238709		36	
8'	0,6836984		0,7297646	331,6	52'	38'	0,6900407		0,7237705	22'	22'	
36	0,6838045		0,7296652		36	36	0,6901460		0,7236702	334,6	36	
9'	0,6839107	353,7	0,7295657	331,7	51'	39'	0,6902512		0,7235698	21'	21'	
36	0,6840168	353,6	0,7294662		36	36	0,6903564		0,7234694	334,7	36	
10'	0,6841229	353,5	0,7293667	331,8	50'	40'	0,6904617	350,7	0,7233690	334,8	20'	
36	0,6842290		0,7292672		36	36	0,6905669	350,6	0,7232686	334,9	36	
11'	0,6843350		0,7291677	331,9	49'	41'	0,6906721	350,5	0,7231681	335,0	19'	
36	0,6844411	353,4	0,7290682	332,0	36	36	0,6907773		0,7230676		36	
12'	0,6845471	353,3	0,7289686		48'	42'	0,6908824		0,7229671	18'	18'	
36	0,6846531		0,7288690		36	36	0,6909876	350,4	0,7228666		36	
13'	0,6847591		0,7287694	332,1	47'	43'	0,6910927	350,3	0,7227661	17'	17'	
36	0,6848651		0,7286698		36	36	0,6911979		0,7226656	335,1	36	
14'	0,6849711	353,2	0,7285702	332,2	46'	44'	0,6913030		0,7225651	16'	16'	
36	0,6850771	353,1	0,7284706		36	36	0,6914080		0,7224646	335,2	36	
15'	0,6851830	353,0	0,7283709	332,3	45'	45'	0,6915131	350,2	0,7223640	335,3	15'	
36	0,6852889		0,7282712		36	36	0,6916182	350,1	0,7222634	335,4	36	
16'	0,6853943		0,7281716	332,4	44'	46'	0,6917232	350,0	0,7221628	335,5	14'	
36	0,6855000	352,9	0,7280719	332,5	36	36	0,6918284		0,7220622		36	
17'	0,6856066	352,8	0,7279722		43'	47'	0,6919332		0,7219615	13'	13'	
36	0,6857125		0,7278725		36	36	0,6920382	349,9	0,7218609	335,6	36	
18'	0,6858184		0,7277727	332,6	42'	48'	0,6921432	349,8	0,7217602	335,7	12'	
36	0,6859242		0,7276730		36	36	0,6922482		0,7216595		36	
19'	0,6860300	352,7	0,7275732	332,7	41'	49'	0,6923531		0,7215588	11'	11'	
36	0,6861358		0,7274734		36	36	0,6924580		0,7214581	335,8	36	
20'	0,6862416		0,7273736	332,8	40'	50'	0,6925630	349,7	0,7213574	335,9	10'	
36	0,6863474	352,6	0,7272738	332,9	36	36	0,6926679	349,6	0,7212567		36	
21'	0,6864532	352,5	0,7271740		36	36	0,6927728	349,5	0,7211559	9'	9'	
36	0,6865590		0,7270742	333,0	36	36	0,6928777		0,7210552	336,0	36	
22'	0,6866647	352,4	0,7269743		52'	52'	0,6929825		0,7209544		36	
36	0,6867704	352,3	0,7268744		36	36	0,6930874	349,4	0,7208536	336,1	36	
23'	0,6868761		0,7267745		37'	53'	0,6931922	349,3	0,7207528	336,2	7'	
36	0,6869818		0,7266746	333,1	36	36	0,6932970		0,7206520		36	
24'	0,6870875	352,2	0,7265747	333,2	36	54'	0,6934018		0,7205511	5'	5'	
36	0,6871932		0,7264748		36	36	0,6935066		0,7204502	336,3	36	
25'	0,6872988		0,7263748	333,3	35'	55'	0,6936114	349,2	0,7203494	336,4	4'	
36	0,6874045	352,1	0,7262748		36	36	0,6937162		0,7202485		36	
26'	0,6875101	352,0	0,7261748	333,4	34'	56'	0,6938209	349,1	0,7201476	336,5	3'	
36	0,6876157	351,9	0,7260748		36	36	0,6939257	349,0	0,7200467		36	
27'	0,6877213	351,8	0,7259748	333,5	33'	57'	0,6940304		0,7199457	336,6	2'	
36	0,6878269		0,7258748		36	36	0,6941351	348,9	0,7198448	336,7	36	
28'	0,6879325		0,7257747		32'	58'	0,6942398	348,8	0,7197438		36	
36	0,6880380		0,7256747	333,6	36	36	0,6943445		0,7196428		36	
29'	0,6881435	351,7	0,7255746	333,7	31'	59'	0,6944491		0,7195418		36	
36	0,6882490		0,7254745		36	36	0,6945538		0,7194408		36	
30'	0,6883545		0,7253744		30'	60'	0,6946584		0,7193398		36	
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.		

46 deg.

44 deg.

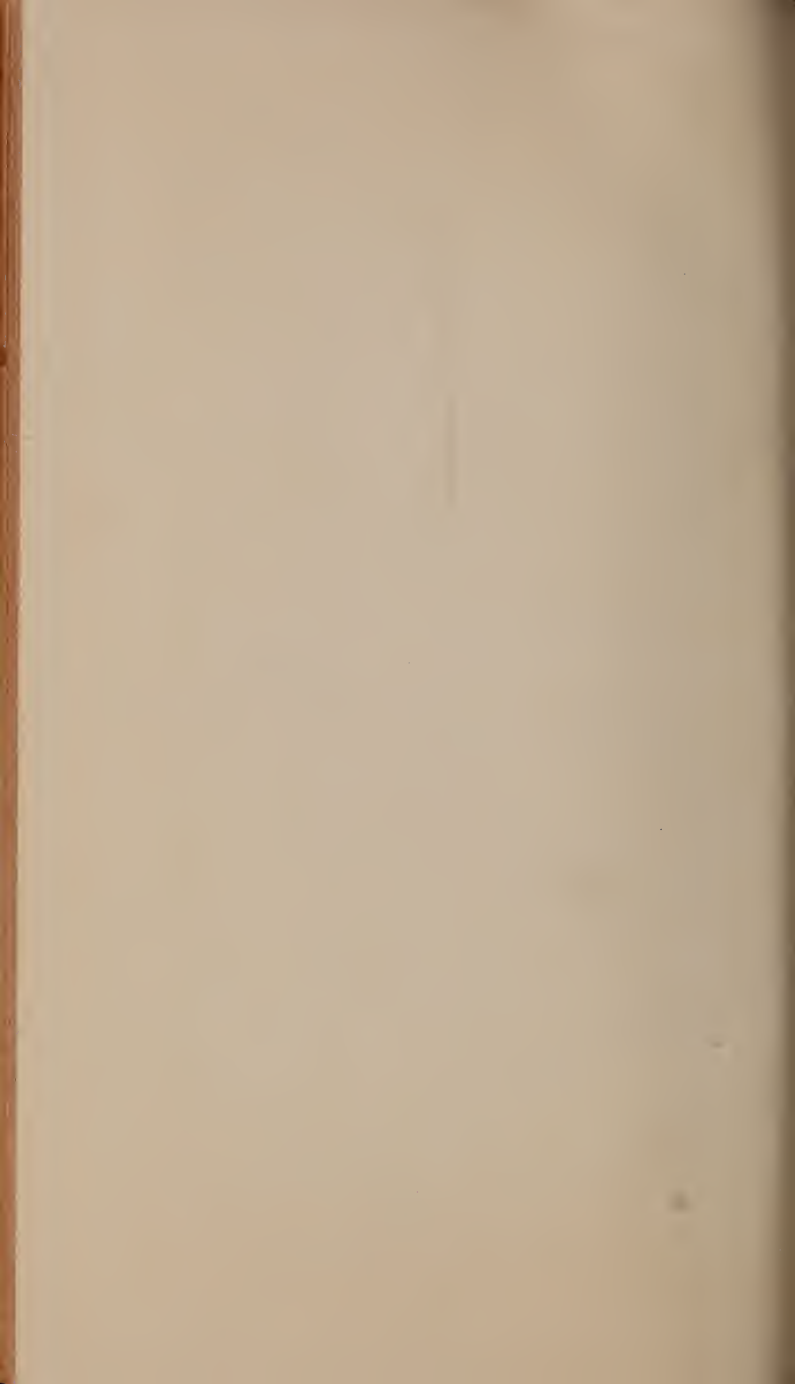
	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0°	0,6746884	348,7	0,7193398	336,8	60°	0,7009093	345,7	0,7132505	330,8
30'	0,6747630	348,6	0,7192388	336,9	30'	0,7010130		0,7131486	330,2
1°	0,6748675	348,5	0,7191377	337,0	59'	0,7011167		0,7130466	329,6
30'	0,6749722		0,7190365		30'	0,7012204	345,6	0,7129446	329,0
2°	0,6750767		0,7189355		58'	0,7013241	345,5	0,7128426	328,4
30'	0,6751812		0,7188344	337,1	30'	0,7014278		0,7127406	327,8
3°	0,6752858		0,7187333	337,2	57'	0,7015314		0,7126385	327,2
30'	0,6753904	348,4	0,7186321		30'	0,7016351	345,4	0,7125364	326,6
4°	0,6754949	348,3	0,7185310		56'	0,7017387	345,3	0,7124344	326,0
30'	0,6755994		0,7184298		30'	0,7018423		0,7123323	325,4
5°	0,6757039	348,2	0,7183287	337,3	55'	0,7019459	345,2	0,7122302	324,8
30'	0,6758084		0,7182275	337,4	30'	0,7020495		0,7121281	324,2
6°	0,6759128		0,7181263	337,5	54'	0,7021531	345,1	0,7120260	323,6
30'	0,6760173	348,1	0,7180251		30'	0,7022566	345,0	0,7119238	323,0
7°	0,6761217	348,0	0,7179238	337,6	53'	0,7023601		0,7118217	322,4
30'	0,6762261	347,9	0,7178226	337,7	30'	0,7024637		0,7117196	321,8
8°	0,6763305	347,8	0,7177213		52'	0,7025672	344,9	0,7116174	321,2
30'	0,6764349		0,7176200		30'	0,7026707	344,8	0,7115152	320,6
9°	0,6765393		0,7175187		51'	0,7027741		0,7114130	320,0
30'	0,6766436		0,7174174		30'	0,7028776		0,7113108	319,4
10°	0,6767479	347,7	0,7173161	337,8	50'	0,7029811	344,7	0,7112086	318,8
30'	0,6768522		0,7172148	337,9	30'	0,7030845		0,7111064	318,2
11°	0,6769565		0,7171134	338,0	49'	0,7031879	344,6	0,7110041	317,6
30'	0,6770608	347,6	0,7170120		30'	0,7032913	344,5	0,7109018	317,0
12°	0,6771651	347,5	0,7169106	338,1	48'	0,7033947		0,7107995	316,4
30'	0,6772694		0,7168092	338,2	30'	0,7034980		0,7106971	315,8
13°	0,6773736		0,7167078	338,3	47'	0,7036014	344,4	0,7105948	315,2
30'	0,6774779	347,4	0,7166064		30'	0,7037048	344,3	0,7104925	314,6
14°	0,6775821	347,3	0,7165049	338,3	46'	0,7038081		0,7103901	314,0
30'	0,6776863		0,7164034		30'	0,7039114		0,7102877	313,4
15°	0,6777905	347,2	0,7163019	338,4	45'	0,7040147	344,2	0,7101854	312,8
30'	0,6778947		0,7162004	338,5	30'	0,7041180		0,7100830	312,2
16°	0,6779988		0,7160989		44'	0,7042213	344,1	0,7099806	311,6
30'	0,6781030	347,1	0,7159974		30'	0,7043246	344,0	0,7098782	311,0
17°	0,6782071	347,0	0,7158958	338,6	43'	0,7044278		0,7097757	310,4
30'	0,6783112	346,9	0,7157943		30'	0,7045310		0,7096732	309,8
18°	0,6784153	346,8	0,7156927	338,7	42'	0,7046342	343,9	0,7095707	309,2
30'	0,6785194		0,7155911		30'	0,7047374	343,8	0,7094682	308,6
19°	0,6786234		0,7154895		41'	0,7048406		0,7093657	308,0
30'	0,6787274	346,7	0,7153879	338,8	30'	0,7049438	343,7	0,7092632	307,4
20°	0,6788315		0,7152863	338,9	40'	0,7050469		0,7091607	306,8
30'	0,6789356	346,6	0,7151847	339,0	30'	0,7051500		0,7090582	306,2
21°	0,6790396	346,5	0,7150830		51'	0,7052532	343,6	0,7089556	305,6
30'	0,6791436		0,7149813		30'	0,7053563	343,5	0,7088530	305,0
22°	0,6792476	346,4	0,7148796	339,1	52'	0,7054594		0,7087504	304,4
30'	0,6793516	346,3	0,7147779	339,2	30'	0,7055625		0,7086478	303,8
23°	0,6794555		0,7146762	339,3	37'	0,7056655	343,4	0,7085451	303,2
30'	0,6795594		0,7145745		30'	0,7057685	343,3	0,7084425	302,6
24°	0,6796633		0,7144727		36'	0,7058716		0,7083398	302,0
30'	0,6797672	346,2	0,7143709	339,4	30'	0,7059746		0,7082371	301,4
25°	0,6798711	346,1	0,7142691	339,5	35'	0,7060776	343,2	0,7081345	300,8
30'	0,6799750		0,7141673		30'	0,7061805		0,7080318	300,2
26°	0,7000789	346,0	0,7140655		34'	0,7062835		0,7079291	299,6
30'	0,7001828		0,7139637		36'	0,7063865	343,1	0,7078264	299,0
27°	0,7002866	345,9	0,7138618	339,6	37'	0,7064894	343,0	0,7077236	298,4
30'	0,7003904		0,7137600		30'	0,7065924		0,7076208	297,8
28°	0,7004942	345,8	0,7136581	339,7	38'	0,7066953	342,9	0,7075180	297,2
30'	0,7005980		0,7135562		30'	0,7067982	342,8	0,7074152	296,6
29°	0,7007018	345,7	0,7134543		31'	0,7069011		0,7073124	296,0
30'	0,7008056		0,7133525		30'	0,7070040	342,7	0,7072096	295,4
30'	0,7009093		0,7132505		30'	0,7071068		0,7071068	294,8
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"

45 deg.

FINIS.

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